

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: February 2, 2005, 18:23:01 ; Search time 149 Seconds  
(without alignments)  
785.623 Million cell updates/sec

Title: US-10-613-413b-8

Perfect score: 1717  
Sequence: 1 MTPSPLLLLPPLLLGAFP.....VLPFGDWSRPDGSYLAKPL 324

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1608061 seqs, 361289386 residues

Total number of hits satisfying chosen parameters: 1608061

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

Database :

1: /cgn2\_6/ptodata/1/pubppa/US07\_PUBCOMB.pep.\*  
2: /cgn2\_6/ptodata/1/pubppa/PCT\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/1/pubppa/US06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/1/pubppa/US06\_PUBCOMB.pep.\*  
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11: /cgn2\_6/ptodata/1/pubppa/US09C\_PUBCOMB.pep.\*  
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18: /cgn2\_6/ptodata/1/pubppa/US11\_NEW\_PUB.pep.\*  
19: /cgn2\_6/ptodata/1/pubppa/US60\_NEW\_PUB.pep.\*  
20: /cgn2\_6/ptodata/1/pubppa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1707	99.4	357	US-10-613-413A-49	Sequence 49, Appl
2	1707	99.4	472	US-09-815-108-5	Sequence 5, Appl
3	1707	99.4	472	US-10-229-584-5	Sequence 2, Appl
4	1707	99.4	504	US-09-758-386-2	Sequence 5, Appl
5	1707	99.4	504	US-09-815-108-8	Sequence 15, Appl
6	1707	99.4	504	US-09-815-108-15	Sequence 8, Appl
7	1707	99.4	504	US-09-815-108-17	Sequence 17, Appl
8	1707	99.4	504	US-09-815-108-19	Sequence 19, Appl
9	1707	99.4	504	US-09-989-722-119	Sequence 119, App
10	1707	99.4	504	US-09-989-723-119	Sequence 119, App
11	1707	99.4	504	US-09-989-279-119	Sequence 119, App
12	1707	99.4	504	US-09-989-727-119	Sequence 119, App
13	1707	99.4	504	US-09-989-731-119	Sequence 119, App

14	1707	99.4	504	US-09-989-732-119	Sequence 119, App
15	1707	99.4	504	US-09-991-073-119	Sequence 119, App
16	1707	99.4	504	US-09-990-442-119	Sequence 119, App
17	1707	99.4	504	US-09-991-163-119	Sequence 119, App
18	1707	99.4	504	US-09-993-604-119	Sequence 119, App
19	1707	99.4	504	US-09-990-456-119	Sequence 119, App
20	1707	99.4	504	US-09-989-721-119	Sequence 119, App
21	1707	99.4	504	US-09-989-598-119	Sequence 119, App
22	1707	99.4	504	US-09-989-293A-119	Sequence 119, App
23	1707	99.4	504	US-09-989-735-119	Sequence 119, App
24	1707	99.4	504	US-09-990-444-119	Sequence 119, App
25	1707	99.4	504	US-09-991-181-119	Sequence 119, App
26	1707	99.4	504	US-09-989-730-119	Sequence 119, App
27	1707	99.4	504	US-09-990-436-119	Sequence 119, App
28	1707	99.4	504	US-09-993-687-119	Sequence 119, App
29	1707	99.4	504	US-09-989-724-119	Sequence 119, App
30	1707	99.4	504	US-09-997-653-119	Sequence 119, App
31	1707	99.4	504	US-09-989-724-119	Sequence 119, App
32	1707	99.4	504	US-09-989-728-119	Sequence 119, App
33	1707	99.4	504	US-09-990-441-119	Sequence 119, App
34	1707	99.4	504	US-09-993-667-119	Sequence 119, App
35	1707	99.4	504	US-09-997-428-119	Sequence 119, App
36	1707	99.4	504	US-09-997-666-119	Sequence 119, App
37	1707	99.4	504	US-09-990-438-119	Sequence 119, App
38	1707	99.4	504	US-09-990-562-119	Sequence 119, App
39	1707	99.4	504	US-09-796-753-94	Sequence 94, Appl
40	1707	99.4	504	US-09-990-711-119	Sequence 119, App
41	1707	99.4	504	US-09-989-726-119	Sequence 119, App
42	1707	99.4	504	US-09-990-437-119	Sequence 119, App
43	1707	99.4	504	US-09-990-437-119	Sequence 119, App
44	1707	99.4	504	US-09-991-157-119	Sequence 119, App
45	1707	99.4	504	US-09-991-157-119	Sequence 119, App

#### ALIGNMENTS

RESULT 1  
US-10-613-413A-49  
Sequence 49, Application US/10613413A  
Publication No. US2004005849A1  
GENERAL INFORMATION:  
APPLICANT: Marison, Matthew  
TITLE OF INVENTION: Fibroblast Growth Factor Receptors and Methods for Their Use  
FILE REFERENCE: 11000.103705  
CURRENT APPLICATION NUMBER: US/10/613,413A  
CURRENT FILING DATE: 2003-07-03  
PRIOR APPLICATION NUMBER: U.S. 09/823,038  
PRIOR FILING DATE: 2001-03-28  
PRIOR APPLICATION NUMBER: U.S. 09/383,586  
PRIOR FILING DATE: 1999-08-26  
PRIOR APPLICATION NUMBER: U.S. 09/276,268  
PRIOR FILING DATE: 1999-03-25  
PRIOR APPLICATION NUMBER: PCT/NZ00/00015  
PRIOR FILING DATE: 2000-02-18  
PRIOR APPLICATION NUMBER: U.S. 60/221,216  
PRIOR FILING DATE: 2000-07-25  
PRIOR APPLICATION NUMBER: U.S. 10/157,444  
PRIOR FILING DATE: 2000-05-28  
PRIOR APPLICATION NUMBER: PCT/NZ03/00105  
PRIOR FILING DATE: 2003-05-27  
NUMBER OF SEQ ID NOS: 145  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 49  
LENGTH: 357  
TYPE: PRT  
ORGANISM: Human  
US-10-613-413A-49  
Query Match 99.4%; Score 1707; DB 15; Length 357;  
Best Local Similarity 99.7%; Pred. No. 4.1e-108;  
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MTPSPLLLLLPPLLLGAPPAAAAAGPPKXADKVVPRQVARTGRVRLQCEVEGDPPL 60  
DB 1 MTPSPLLLLLPPLLLGAPPAAAAAGPPKXADKVVPRQVARTGRVRLQCEVEGDPPL 60  
QY 61 TMTXDGRTIHSGWRSFRVLPQGLKVKQYEREDAGVYVCATNGFGLSVNTLVLLDDI 120  
DB 61 TMTXDGRTIHSGWRSFRVLPQGLKVKQYEREDAGVYVCATNGFGLSVNTLVLLDDI 120  
QY 121 SPGKESLGPDSGGQEDPASQOMARPRFTOPSKKRRRVIARPVGSSVRLKCVASGHPRP 180  
DB 121 SPGKESLGPDSGGQEDPASQOMARPRFTOPSKKRRRVIARPVGSSVRLKCVASGHPRP 180  
QY 181 DITWKKDQALTRPEAAERPKKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240  
DB 181 DITWKKDQALTRPEAAERPKKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240  
QY 241 RTRSKPVLTGTHPVNTTVDGFTTSFOCKVRSADVKEVPIQMLKRVYGAEGRHNSITIDVG 300  
DB 241 RTRSKPVLTGTHPVNTTVDGFTTSFOCKVRSADVKEVPIQMLKRVYGAEGRHNSITIDVG 300  
QY 301 QKFVVLPTGVDWRSRDPGSYLKPL 324  
DB 301 QKFVVLPTGVDWRSRDPGSYLKPL 324

## RESULT 2

US-09-815-108-5  
; Sequence 5, Application US/09815108  
; Patent No. US2002000976A1  
; GENERAL INFORMATION:  
; APPLICANT: Saris, Christiaan M.  
; APPLICANT: Sharon, Mu X.  
; APPLICANT: Boone, Thomas Charles  
; APPLICANT: Covey, Todd  
; TITLE OF INVENTION: Fibroblast Growth Factor Receptor-Like Molecules and  
; FILE REFERENCE: 99-513-A  
; CURRENT APPLICATION NUMBER: US/09/815,108  
; CURRENT FILING DATE: 2001-03-22  
; PRIOR APPLICATION NUMBER: 60/191,379  
; PRIOR FILING DATE: 2000-03-22  
; NUMBER OF SEQ ID NOS: 22  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO: 5  
; LENGTH: 472  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-815-108-5

Query Match 99.4%; Score 1707; DB 9; Length 472;

Best Local Similarity 99.7%; Pred. No. 5.5e-108; Mismatches 1; Indels 0; Gaps 0;

Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MTPSPLLLLLPPLLLGAPPAAAAAGPPKXADKVVPRQVARTGRVRLQCEVEGDPPL 60  
DB 1 MTPSPLLLLLPPLLLGAPPAAAAAGPPKXADKVVPRQVARTGRVRLQCEVEGDPPL 60  
QY 61 TMTXDGRTIHSGWRSFRVLPQGLKVKQYEREDAGVYVCATNGFGLSVNTLVLLDDI 120  
DB 61 TMTXDGRTIHSGWRSFRVLPQGLKVKQYEREDAGVYVCATNGFGLSVNTLVLLDDI 120  
QY 121 SPGKESLGPDSGGQEDPASQOMARPRFTOPSKKRRRVIARPVGSSVRLKCVASGHPRP 180  
DB 121 SPGKESLGPDSGGQEDPASQOMARPRFTOPSKKRRRVIARPVGSSVRLKCVASGHPRP 180  
QY 181 DITWKKDQALTRPEAAERPKKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240  
DB 181 DITWKKDQALTRPEAAERPKKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240  
QY 241 RTRSKPVLTGTHPVNTTVDGFTTSFOCKVRSADVKEVPIQMLKRVYGAEGRHNSITIDVG 300  
DB 241 RTRSKPVLTGTHPVNTTVDGFTTSFOCKVRSADVKEVPIQMLKRVYGAEGRHNSITIDVG 300

DB 241 RTRSKPVLTGTHPVNTTVDGFTTSFOCKVRSADVKEVPIQMLKRVYGAEGRHNSITIDVG 300  
QY 301 QKFVVLPTGVDWRSRDPGSYLKPL 324  
DB 301 QKFVVLPTGVDWRSRDPGSYLKPL 324

## RESULT 3

US-10-229-584-5  
; Sequence 5, Application US/10229584  
; Publication No. US20030087384A1  
; GENERAL INFORMATION:  
; APPLICANT: Saris, Christiaan M.  
; APPLICANT: Sharon, Mu X.  
; APPLICANT: Xie, Min  
; TITLE OF INVENTION: Fibroblast Growth Factor Receptor-Like Molecules and  
; FILE REFERENCE: 99-513-F  
; CURRENT APPLICATION NUMBER: US/10/229,584  
; CURRENT FILING DATE: 2002-08-28  
; PRIOR APPLICATION NUMBER: 09/815,108  
; PRIOR FILING DATE: 2001-03-22  
; PRIOR APPLICATION NUMBER: 60/191,379  
; PRIOR FILING DATE: 2000-03-22  
; NUMBER OF SEQ ID NOS: 22  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO: 5  
; LENGTH: 472  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-229-584-5

Query Match 99.4%; Score 1707; DB 14; Length 472;

Best Local Similarity 99.7%; Pred. No. 5.5e-108; Mismatches 1; Indels 0; Gaps 0;

Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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DB 1 MTPSPLLLLLPPLLLGAPPAAAAAGPPKXADKVVPRQVARTGRVRLQCEVEGDPPL 60  
QY 61 TMTXDGRTIHSGWRSFRVLPQGLKVKQYEREDAGVYVCATNGFGLSVNTLVLLDDI 120  
DB 61 TMTXDGRTIHSGWRSFRVLPQGLKVKQYEREDAGVYVCATNGFGLSVNTLVLLDDI 120  
QY 121 SPGKESLGPDSGGQEDPASQOMARPRFTOPSKKRRRVIARPVGSSVRLKCVASGHPRP 180  
DB 121 SPGKESLGPDSGGQEDPASQOMARPRFTOPSKKRRRVIARPVGSSVRLKCVASGHPRP 180  
QY 181 DITWKKDQALTRPEAAERPKKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240  
DB 181 DITWKKDQALTRPEAAERPKKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240  
QY 241 RTRSKPVLTGTHPVNTTVDGFTTSFOCKVRSADVKEVPIQMLKRVYGAEGRHNSITIDVG 300  
DB 241 RTRSKPVLTGTHPVNTTVDGFTTSFOCKVRSADVKEVPIQMLKRVYGAEGRHNSITIDVG 300  
QY 301 QKFVVLPTGVDWRSRDPGSYLKPL 324  
DB 301 QKFVVLPTGVDWRSRDPGSYLKPL 324

## RESULT 4

US-09-758-386-2  
; Sequence 2, Application US/09758386  
; Patent No. US20010016335A1  
; GENERAL INFORMATION:  
; APPLICANT: Human Genome Sciences, Inc. et al.  
; TITLE OF INVENTION: Fibroblast Growth Factor Receptor-5  
; FILE REFERENCE: PF486PCT  
; CURRENT APPLICATION NUMBER: US/09/758,386  
; CURRENT FILING DATE: 2001-01-12  
; PRIOR APPLICATION NUMBER: 09/293,182  
; PRIOR FILING DATE: 1999-04-16

NUMBER OF SEQ ID NOS: 15  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 2  
LENGTH: 504  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-758-386-2

Query Match 99.4%; Score 1707; DB 9; Length 504;  
Best Local Similarity 99.7%; Pred. No. 5.9e-108;  
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 61 TMTKDGRTTHSGMSRFRVLPQGLKVKOVEREDAGVYCKATNGFGLSVNTYLLVLDI 120  
DB 61 TMTKDGRTTHSGMSRFRVLPQGLKVKOVEREDAGVYCKATNGFGLSVNTYLLVLDI 120  
QY 121 SPKESLGPDSGGQEDPASQOMARPRFTQPSKMRRIARPVGSSVRLKCVASGHPRP 180  
DB 121 SPKESLGPDSGGQEDPASQOMARPRFTQPSKMRRIARPVGSSVRLKCVASGHPRP 180  
QY 181 DITWMDQALTRPEAAEPKRWTLISKULRPEDSGKTCRVSNRAGAINATYKVDVIQ 240  
DB 181 DITWMDQALTRPEAAEPKRWTLISKULRPEDSGKTCRVSNRAGAINATYKVDVIQ 240  
QY 241 RTRSKPVLTGTHPVNTVDFGTTSPQCKVRSVDPVIOMLKRYEYGAEGRNSTIDVG 300  
DB 241 RTRSKPVLTGTHPVNTVDFGTTSPQCKVRSVDPVIOMLKRYEYGAEGRNSTIDVG 300  
QY 301 QKFVVLPTGDVMSRPDGSYLNKPL 324  
DB 301 QKFVVLPTGDVMSRPDGSYLNKPL 324

## RESULT 5

US-09-815-108-8  
Sequence 8, Application US/09815108  
Patent No. US20020009776A1  
GENERAL INFORMATION:  
APPLICANT: Satis, Christiaan M.  
APPLICANT: Sharon, Mu X.  
APPLICANT: Xia, Min  
APPLICANT: Boone, Thomas Charles  
APPLICANT: Covey, Todd  
TITLE OF INVENTION: Fibroblast Growth Factor Receptor-Like Molecules and  
FILE REFERENCE: 99-513-A  
CURRENT APPLICATION NUMBER: US/09/815,108  
PRIOR FILING DATE: 2001-03-22  
NUMBER OF SEQ ID NOS: 22  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 8  
LENGTH: 504  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: virtual human  
OTHER INFORMATION: FGFR-L amino acid sequence comprising residues  
OTHER INFORMATION: 1-472 of SEQ ID NO: 5 and residues 473-504 of  
US-09-815-108-8

Query Match 99.4%; Score 1707; DB 9; Length 504;  
Best Local Similarity 99.7%; Pred. No. 5.9e-108;  
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MTPSPILLILLPPLLIGAFPPAAAAGPPKMAADKVVPRQVARGRTVRLCCPVEGDPPL 60

DB 1 MTPSPILLILLPPLLIGAFPPAAAAGPPKMAADKVVPRQVARGRTVRLCCPVEGDPPL 60  
QY 61 TMTKDGRTTHSGMSRFRVLPQGLKVKOVEREDAGVYCKATNGFGLSVNTYLLVLDI 120  
DB 61 TMTKDGRTTHSGMSRFRVLPQGLKVKOVEREDAGVYCKATNGFGLSVNTYLLVLDI 120  
QY 121 SPKESLGPDSGGQEDPASQOMARPRFTQPSKMRRIARPVGSSVRLKCVASGHPRP 180  
DB 121 SPKESLGPDSGGQEDPASQOMARPRFTQPSKMRRIARPVGSSVRLKCVASGHPRP 180  
QY 181 DITWMDQALTRPEAAEPKRWTLISKULRPEDSGKTCRVSNRAGAINATYKVDVIQ 240  
DB 181 DITWMDQALTRPEAAEPKRWTLISKULRPEDSGKTCRVSNRAGAINATYKVDVIQ 240  
QY 241 RTRSKPVLTGTHPVNTVDFGTTSPQCKVRSVDPVIOMLKRYEYGAEGRNSTIDVG 300  
DB 241 RTRSKPVLTGTHPVNTVDFGTTSPQCKVRSVDPVIOMLKRYEYGAEGRNSTIDVG 300  
QY 301 QKFVVLPTGDVMSRPDGSYLNKPL 324  
DB 301 QKFVVLPTGDVMSRPDGSYLNKPL 324

## RESULT 6

US-09-815-108-15  
Sequence 15, Application US/09815108  
Patent No. US20020009776A1  
GENERAL INFORMATION:  
APPLICANT: Satis, Christiaan M.  
APPLICANT: Sharon, Mu X.  
APPLICANT: Xia, Min  
APPLICANT: Boone, Thomas Charles  
APPLICANT: Covey, Todd  
TITLE OF INVENTION: Fibroblast Growth Factor Receptor-Like Molecules and  
FILE REFERENCE: 99-513-A  
CURRENT APPLICATION NUMBER: US/09/815,108  
PRIOR FILING DATE: 2001-03-22  
NUMBER OF SEQ ID NOS: 22  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 15  
LENGTH: 504  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-815-108-15

Query Match 99.4%; Score 1707; DB 9; Length 504;  
Best Local Similarity 99.7%; Pred. No. 5.9e-108;  
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MTPSPILLILLPPLLIGAFPPAAAAGPPKMAADKVVPRQVARGRTVRLCCPVEGDPPL 60  
DB 1 MTPSPILLILLPPLLIGAFPPAAAAGPPKMAADKVVPRQVARGRTVRLCCPVEGDPPL 60  
QY 61 TMTKDGRTTHSGMSRFRVLPQGLKVKOVEREDAGVYCKATNGFGLSVNTYLLVLDI 120  
DB 61 TMTKDGRTTHSGMSRFRVLPQGLKVKOVEREDAGVYCKATNGFGLSVNTYLLVLDI 120  
QY 121 SPKESLGPDSGGQEDPASQOMARPRFTQPSKMRRIARPVGSSVRLKCVASGHPRP 180  
DB 121 SPKESLGPDSGGQEDPASQOMARPRFTQPSKMRRIARPVGSSVRLKCVASGHPRP 180  
QY 181 DITWMDQALTRPEAAEPKRWTLISKULRPEDSGKTCRVSNRAGAINATYKVDVIQ 240  
DB 181 DITWMDQALTRPEAAEPKRWTLISKULRPEDSGKTCRVSNRAGAINATYKVDVIQ 240  
QY 241 RTRSKPVLTGTHPVNTVDFGTTSPQCKVRSVDPVIOMLKRYEYGAEGRNSTIDVG 300  
DB 241 RTRSKPVLTGTHPVNTVDFGTTSPQCKVRSVDPVIOMLKRYEYGAEGRNSTIDVG 300  
QY 301 QKFVVLPTGDVMSRPDGSYLNKPL 324

Db 301 QKFVVLPTGDVWSRPDGSYLKLL 324

# RESULT 7

US-09-815-108-17  
 ; Sequence 17, Application US/09815108  
 ; Patent No. US20020009776A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sarie, Christiaan M.  
 ; APPLICANT: Sharon, Mu X.  
 ; APPLICANT: Xia, Min  
 ; APPLICANT: Boone, Thomas Charles  
 ; APPLICANT: Covey, Todd  
 ; TITLE OF INVENTION: Fibroblast Growth Factor Receptor-Like Molecules and  
 ; TITLE OF INVENTION: Uses Thereof  
 ; FILE REFERENCE: 99-513-A  
 ; CURRENT APPLICATION NUMBER: US/09/815,108  
 ; CURRENT FILING DATE: 2001-03-22  
 ; PRIOR APPLICATION NUMBER: 60/191,379  
 ; PRIOR FILING DATE: 2000-03-22  
 ; NUMBER OF SEQ ID NOS: 22  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 17  
 ; LENGTH: 504  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-09-815-108-17

Query Match 99.4%; Score 1707; DB 9; Length 504;  
 Best Local Similarity 99.7%; Pred. No. 5.9e-108;  
 Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MPPSLLLLLPPLLGAAPPAAAGPPKADKVPVQVARIQRTVLCQVEGDPPPL 60  
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 Db 1 MPPSLLLLLPPLLGAAPPAAAGPPKADKVPVQVARIQRTVLCQVEGDPPPL 60  
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 Qy 61 TMTKDGRTHSGWRSFRVLPQGLKVKOVEREDAGVYVCKATNGFGLSVNTLVLLDDI 120  
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 Db 61 TMTKDGRTHSGWRSFRVLPQGLKVKOVEREDAGVYVCKATNGFGLSVNTLVLLDDI 120  
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 Qy 121 SPKESLGPDSGSGQEDPASQOMARPRFTQSKRRRIAPVGSVRLKCVASGHPRP 180  
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 Db 121 SPKESLGPDSGSGQEDPASQOMARPRFTQSKRRRIAPVGSVRLKCVASGHPRP 180  
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 Qy 181 DITMKDDALTRPAAERPKKWTLSLKNLRPEDSGKYTCRVSNRAGINATYKVDVQ 240  
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 Db 181 DITMKDDALTRPAAERPKKWTLSLKNLRPEDSGKYTCRVSNRAGINATYKVDVQ 240  
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 Qy 241 RTRSKPVLGTHPVTVDVFGGTTSPQCKVRSADVPIQMLKRVYGAEGRHNSTIDVGG 300  
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 Db 241 RTRSKPVLGTHPVTVDVFGGTTSPQCKVRSADVPIQMLKRVYGAEGRHNSTIDVGG 300  
 |||||||  
 Qy 301 QKFVVLPTGDVWSRPDGSYLKPL 324  
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 Db 301 QKFVVLPTGDVWSRPDGSYLKLL 324  
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## RESULT 8

US-09-815-108-19  
 ; Sequence 19, Application US/09815108  
 ; Patent No. US20020009776A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sarie, Christiaan M.  
 ; APPLICANT: Sharon, Mu X.  
 ; APPLICANT: Xia, Min  
 ; APPLICANT: Boone, Thomas Charles  
 ; APPLICANT: Covey, Todd  
 ; TITLE OF INVENTION: Fibroblast Growth Factor Receptor-Like Molecules and  
 ; TITLE OF INVENTION: Uses Thereof  
 ; FILE REFERENCE: 99-513-A  
 ; CURRENT APPLICATION NUMBER: US/09/815,108  
 ; CURRENT FILING DATE: 2001-03-22

;; PRIOR APPLICATION NUMBER: 60/191,379  
 ;; PRIOR FILING DATE: 2000-03-22  
 ;; NUMBER OF SEQ ID NOS: 22  
 ;; SOFTWARE: PatentIn Ver. 2.0  
 ;; SEQ ID NO 19  
 ;; LENGTH: 504  
 ;; TYPE: PRT  
 ;; ORGANISM: Homo sapiens  
 US-09-815-108-19

Query Match 99.4%; Score 1707; DB 9; Length 504;  
 Best Local Similarity 99.7%; Pred. No. 5.9e-108;  
 Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MPPSLLLLLPPLLGAAPPAAAGPPKADKVPVQVARIQRTVLCQVEGDPPPL 60  
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 Db 1 MPPSLLLLLPPLLGAAPPAAAGPPKADKVPVQVARIQRTVLCQVEGDPPPL 60  
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 Qy 61 TMTKDGRTHSGWRSFRVLPQGLKVKOVEREDAGVYVCKATNGFGLSVNTLVLLDDI 120  
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 Db 61 TMTKDGRTHSGWRSFRVLPQGLKVKOVEREDAGVYVCKATNGFGLSVNTLVLLDDI 120  
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 Qy 121 SPKESLGPDSGSGQEDPASQOMARPRFTQSKRRRIAPVGSVRLKCVASGHPRP 180  
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 Db 121 SPKESLGPDSGSGQEDPASQOMARPRFTQSKRRRIAPVGSVRLKCVASGHPRP 180  
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 Qy 181 DITMKDDALTRPAAERPKKWTLSLKNLRPEDSGKYTCRVSNRAGINATYKVDVQ 240  
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 Db 181 DITMKDDALTRPAAERPKKWTLSLKNLRPEDSGKYTCRVSNRAGINATYKVDVQ 240  
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 Qy 241 RTRSKPVLGTHPVTVDVFGGTTSPQCKVRSADVPIQMLKRVYGAEGRHNSTIDVGG 300  
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 Db 241 RTRSKPVLGTHPVTVDVFGGTTSPQCKVRSADVPIQMLKRVYGAEGRHNSTIDVGG 300  
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 Qy 301 QKFVVLPTGDVWSRPDGSYLKPL 324  
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 Db 301 QKFVVLPTGDVWSRPDGSYLKLL 324  
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## RESULT 9

US-09-989-722-119  
 ; Sequence 119, Application US/09989722  
 ; Patent No. US20020072067A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gertsen, Mary E.  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Kljavin, Ivar J.  
 ; APPLICANT: Napier, Mary A.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas F.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Watanabe, Colin K.  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; TITLE OF INVENTION: Acids Encoding the Same  
 ; FILE REFERENCE: P2730P1C63  
 ; CURRENT APPLICATION NUMBER: US/09/989,722  
 ; CURRENT FILING DATE: 2001-11-19

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70	PRIOR FILING DATE: 1998-06-11
71	PRIOR APPLICATION NUMBER: 60/088876
72	PRIOR FILING DATE: 1998-06-11
73	PRIOR APPLICATION NUMBER: 60/089105

1	PRIOR FILING DATE: 1998-06-12
2	PRIOR APPLICATION NUMBER: 60/0893440
3	PRIOR FILING DATE: 1998-06-16
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5	PRIOR FILING DATE: 1998-06-16
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71	PRIOR FILING DATE: 1998-06-25

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PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/090863  
PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/091360  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091478  
PRIOR FILING DATE: 1998-07-02  
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PRIOR FILING DATE: 1998-07-01  
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PRIOR FILING DATE: 1998-07-02  
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PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1707; DB 9; Length 504;  
Best Local Similarity 99.7%; Pred. No. 5, 9e-108;  
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MTPSPILLILLPLLLGAFPPAAARGPMMADKVVPQVARTLQCEVGGPPPL 60  
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QY 121 SFGKSLGPDSSGGGQEDPASQOMAPRPTQSKRRRIARPVGSVYLKCVASGHRP 180  
DB 121 SFGKSLGPDSSGGGQEDPASQOMAPRPTQSKRRRIARPVGSVYLKCVASGHRP 180  
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QY 241 RTRSRKVLGTGHPVNTTVDFGGTTSFQCKVRSDVKVLOMLKRVEXGAGRNSITDVG 300  
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QY 301 QKPVVLPDGVWSRPPGSIYANKPL 324  
DB 301 QKPVVLPDGVWSRPPGSIYANKPL 324

RESULT 10  
US-09-989-723-119

Sequence 119, Application US/09989723  
Patent No. US20020072092A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Baton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Geritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zhen  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P27301C62  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
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PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1707; DB 9; Length 504;  
Best Local Similarity 99.7%; Pred. No. 5,9e-108;  
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MTPSPILLILLPPLLGAFPAAARPPPMADKVPVPROYARIGRTVRLCCPVEGDPPL 60  
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QY 121 SPKESLGPDSGSGGQEDPASQOMARPRFTQPSKMRRIARVGSVRLKCVASGHRP 180  
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QY 181 DITMKDDQALTRPEAEPRKKTLSLKNLREDSGKTYTCVSNRGAINATYKDVIO 240  
DB 181 DITMKDDQALTRPEAEPRKKTLSLKNLREDSGKTYTCVSNRGAINATYKDVIO 240  
QY 241 RTRSKPVLGTHTPVNTVDGCTTSPCKTRSDVYKPIQWLKXVEYAEERHNSITDVG 300  
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QY 301 OKFVVLPTGDVWSRPGSYLKNPL 324  
DB 301 OKFVVLPTGDVWSRPGSYLKNPL 324

RESULT 11  
US-09-989-279-119  
Sequence 119, Application US/09989279  
Patent No. US2002072496A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerltzen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavir, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2/30P1C56  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
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PRIOR FILING DATE: 1997-11-12  
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PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1707; DB 9; Length 504;  
Best Local Similarity 99.7%; Pred. No. 5.9e-108;  
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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DB 121 SPKESISGPDSSSGQEDPAQWARPFTQPSKRRRVIAAPVSSVRLKCVASGHRP 180  
QY 181 DITMKDQALTRDEAABPRKKWTLSLKNLRPEDSGKYTCRVSNRGAINATYKVVIO 240  
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QY 241 RTRSKPVLTGTHPVNTTVDFGTTSPQCKVRSVYQWLKRYEYGAEGHNSITIDVG 300  
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QY 301 QKEVVLPTGDVMSRPDGSYLTKPL 324  
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RESULT 12  
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Sequence 119, Application US/09989727  
Patent No. US2002072497A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gertlisen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavlin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
File REFERENCE: P2730P1C65  
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CURRENT FILING DATE: 2001-11-19  
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PRIOR FILING DATE: 1998-07-09

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121 SGGKSLGPDSSSGQEDPASQOMARPRFTOPSKKRRRIARVPVSSVYLKCVASGHPRP 180  
181 DITWKKDDQALTRPEAAERKKKKWTLSLKNLRPEDSGKTTCVSNRAGAINATYKVDVQ 240  
181 DITWKKDDQALTRPEAAERKKKKWTLSLKNLRPEDSGKTTCVSNRAGAINATYKVDVQ 240  
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Patent No. US20020103125A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnovers, Luc  
APPLICANT: Eaton, Dan L.  
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APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C70  
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PRIOR APPLICATION NUMBER: 60/090540  
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PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091478  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091544  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091526  
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PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182

PRIOR FILING DATE: 1998-07-09  
Query Match 99.4%; Score 1707; DB 9; Length 504;  
Best Local Similarity 99.7%; Pred. No. 5,9e-108;  
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
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DB 61 TMTWTDGRTISGWRFRVLPOGLKVKOVEREDGAVYCKATNGSGISLVNTLVVLDI 120  
QY 121 SPKESLAPDSSSGQDEPASPQMARPRFTOPSKKRRRVIARPVGSSVRLKCVASGHRP 180  
DB 121 SPKESLAPDSSSGQDEPASPQMARPRFTOPSKKRRRVIARPVGSSVRLKCVASGHRP 180  
QY 181 DITWKKDDQALTRPEAEPKRRKWTLSKNTLPEDSGKYTCRVSRAGAINATYKVYIQ 240  
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QY 241 RTRSKPVLTGTHPVNTTVDGTTTSFOCKVRSVYKPVIOMLKRVYGAEGHNSITIDVG 300  
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DB 301 QKFVLPFGDVMSRPDSYLNKPL 324  
RESULT 14  
US-09-989-732-119  
Sequence 119, Application US/09989732  
Patent No. US20020123463A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnovers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, V. Christopher  
APPLICANT: Guiney, Auelin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C57  
CURRENT APPLICATION NUMBER: US/09/989,732  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13

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66	PRIOR APPLICATION NUMBER: 60/091360
67	PRIOR FILING DATE: 1998-07-01
68	PRIOR APPLICATION NUMBER: 60/091478
69	PRIOR FILING DATE: 1998-07-02

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PRIOR FILING DATE: 1998-07-01  
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PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match Best Local Similarity 99.4%; Score 1707; DB 9; Length 504;

Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 241 RTRSRVLTGTHPVNTTVFGGTSQCKVRSDVYVITWIKRVEGAGRNSTIDVG 300  
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RESULT 15  
US-09-991-073-119

Sequence 119, Application US/09991073  
Patent No. US20020127576A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerder, Hanspeter  
APPLICANT: Gerlitsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Grimaldi, U. Christopher  
APPLICANT: Gurney, Austin L.  
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APPLICANT: Napier, Mary A.  
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APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P15  
CURRENT APPLICATION NUMBER: US/09/991,073  
CURRENT FILING DATE: 2001-11-14  
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PRIOR FILING DATE: 1997-06-16  
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PRIOR APPLICATION NUMBER: 60/091982  
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PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 99.4%; Score 1707; DB 9; Length 504;  
Best Local Similarity 99.7%; Pred. No. 5,9e-108;  
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MTPSPILLPLLPULLGAPPAAPAAAGPPMAADKVVPROVARLGRVTRLOCPVGGDPPL 60  
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QY 301 QKFVVLPTGDVWSRPDSYLNKPL 324  
DB 301 QKFVVLPTGDVWSRPDSYLNKPL 324

Search completed: February 2, 2005, 18:37:32  
Job time : 156 secs





GenCore version 5.1.6  
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OM protein - protein search, using SW model

Run on: February 2, 2005, 18:12:29 ; Search time 159 Seconds  
(without alignments)  
730.996 Million cell updates/sec

Title: US-10-613-413B-8

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Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 2002273 seqs, 358729299 residues

Total number of hits satisfying chosen parameters: 2002273

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-Processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database :

1: Geneseqp\_23Sep04:\*  
2: geneseqp1806:\*  
3: geneseqp19906:\*  
4: geneseqp20018:\*  
5: geneseqp20028:\*  
6: geneseqp20038:\*  
7: geneseqp20038:\*  
8: geneseqp20048:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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4	1707	99.4	504	AAy92864	AAy92864 Human fib
5	1707	99.4	504	AAAB24066	AAAB24066 Human PRO
6	1707	99.4	504	AAAB66264	AAAB66264 Human MAN
7	1707	99.4	504	AAAB65179	AAAB65179 Human PRO
8	1707	99.4	504	AAU77790	AAU77790 Human PRO
9	1707	99.4	504	ABBB84237	ABBB84237 Human IMX
10	1707	99.4	504	AAU81961	AAU81961 Human PRO
11	1707	99.4	504	ABU57994	ABU57994 Human PRO
12	1707	99.4	504	ABU59072	ABU59072 Novel hum
13	1707	99.4	504	ABU82584	ABU82584 Human sec
14	1707	99.4	504	ABU60503	ABU60503 Human sec
15	1707	99.4	504	ABU13885	ABU13885 Human PRO
16	1707	99.4	504	ABU72470	ABU72470 Novel hum
17	1707	99.4	504	ABU59219	ABU59219 Human sec
18	1707	99.4	504	ABO25916	ABO25916 Human PRO
19	1707	99.4	504	ABU58925	ABU58925 Human sec
20	1707	99.4	504	ABU92303	ABU92303 Novel hum
21	1707	99.4	504	ABU59368	ABU59368 Novel hum
22	1707	99.4	504	ABU92134	ABU92134 Novel hum
23	1707	99.4	504	ABU10840	ABU10840 Human PRO
24	1707	99.4	504	ABU81592	ABU81592 Novel hum
25	1707	99.4	504	ABU88531	ABU88531 Human sec

25	1707	99.4	504	6	ABO34045	ABO34045 Human PRO
27	1707	99.4	504	6	ADA37630	ADA37630 Human sec
28	1707	99.4	504	6	ADA21316	ADA21316 Human sec
29	1707	99.4	504	6	ADA10103	ADA10103 Human sec
30	1707	99.4	504	6	ADA17647	ADA17647 Human PRO
31	1707	99.4	504	6	ADA27755	ADA27755 Human sec
32	1707	99.4	504	6	ADA94335	ADA94335 Human sec
33	1707	99.4	504	6	ADA38560	ADA38560 Human sec
34	1707	99.4	504	6	ADA92681	ADA92681 Human sec
35	1707	99.4	504	7	ABO53131	ABO53131 Human sec
36	1707	99.4	504	7	ABO22242	ABO22242 Human sec
37	1707	99.4	504	7	ABO22501	ABO22501 Human sec
38	1707	99.4	504	7	ADO6408	ADO6408 Human sec
39	1707	99.4	504	7	ADA39101	ADA39101 Human sec
40	1707	99.4	504	7	ADBS6127	ADBS6127 Human PRO
41	1707	99.4	504	7	ADCS7599	ADCS7599 Human PRO
42	1707	99.4	504	7	ADCS4963	ADCS4963 Human PRO
43	1707	99.4	504	7	ADC11830	ADC11830 Human sec
44	1707	99.4	504	7	ADC56252	ADC56252 Human PRO
45	1707	99.4	504	7	ADC07307	ADC07307 Human sec

#### ALIGNMENTS

RESULT 1	ADf83418	standard; protein; 324 AA.
ID	ADf83418	
XX	ADf83418;	
AC	ADf83418;	
XX	26-FEB-2004 (first entry)	
DT	26-FEB-2004 (first entry)	
XX	Human fibroblast growth factor receptor 5 polypeptide.	
DE	Human fibroblast growth factor receptor 5 polypeptide.	
XX	Human fibroblast growth factor receptor 5; receptor; FGFR5; cytosolic;	
KW	neuroprotective; antiinflammatory; dermatological; immunosuppressive;	
KW	antidiabetic; antirheumatic; antiarthritic; tuberculosstatic;	
KW	tuberculosstatic; litholytic; nephrotropic; antiarteriosclerotic;	
KW	vasotropic; osteopathic; gene therapy.	
XX	Homo sapiens.	
OS	Homo sapiens.	
XX	Location/Qualifiers	
FH	Key	1..24
FT	Peptide	/note="Signal peptide"
FT	Domain	44..106
FT	Region	/note="Immunoglobulin domain"
FT	Region	51..54
FT	Region	/note="CAAX box"
FT	Region	99..102
FT	Region	/note="CAAX box"
FT	Domain	145..171
FT	Domain	/note="CAM binding domain"
FT	Domain	154..171
FT	Domain	/note="Heparin binding domain"
FT	Domain	165..228
FT	Domain	/note="Immunoglobulin domain"
FT	Modified-site	202..205
FT	Modified-site	/note="GMP- and cGMP-dependent protein kinase phosphorylation site"
FT	Modified-site	212..219
FT	Modified-site	/note="Tyrosine kinase phosphorylation site"
FT	Region	217..220
FT	Region	/note="CAAX box"
FT	Domain	261..324
FT	Domain	/note="Immunoglobulin domain"
FT	Region	268..271
FT	Region	/note="CAAX box"
XX	MO200309839-A1.	
FN	04-DEC-2003.	
XX		
PD		

XX 27-MAY-2003; 2003WO-NZ000105.  
 XX  
 XX 28-MAY-2002; 2002US-00157444.  
 XX  
 XX (GENE-) GENESIS RES & DEV CORP LTD.  
 XX  
 XX Murison JG, Sleeman M;  
 XX  
 XX WPI; 2004-035099/03.  
 XX  
 XX Modulators of fibroblast growth factor receptor 5-gene expression or  
 XX polypeptide function, useful in a medicament for treating a disease  
 XX associated with elevated osteopontin expression e.g. cancer, multiple  
 XX sclerosis or diabetes.  
 XX  
 XX Disclosure; Fig 10; 95pp; English.  
 XX  
 XX The present sequence is the protein sequence of human fibroblast growth  
 XX factor receptor 5 (FGFR5). The invention provides murine and human FGFR5  
 XX polypeptides and polynucleotides, as well as modulators of FGFR5 gene  
 XX expression and binding molecules that specifically bind to and agonise or  
 XX antagonise FGFR5 polypeptide function. Modulators of FGFR5 polypeptide  
 XX function include antibodies, scfv and Camelidae heavy chain IgG that  
 XX specifically bind to FGFR5. They can be used to treat diseases associated  
 XX with elevated osteopontin expression such as cancer (especially breast  
 XX cancer, hepatocellular carcinoma and colon cancer), multiple sclerosis,  
 XX systemic lupus erythematosus, diabetes, rheumatoid arthritis,  
 XX sarcoidosis, tuberculosis, kidney stones, atherosclerosis, vasculitis,  
 XX nephritis, arthritis, osteoporosis and osteopetrosis.  
 XX  
 XX Sequence 324 AA;

Query Match 100.0%; Score 1717; DB 8; Length 324;  
 Best Local Similarity 100.0%; Pred. No. 1.7e-118;  
 Matches 324; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTPSPLLLLLPPLLLGAPPAARAGPPKMAKVVPRVAVAGTVRLQCPVEGDPPL 60  
 DB 1 MTPSPLLLLLPPLLLGAPPAARAGPPKMAKVVPRVAVAGTVRLQCPVEGDPPL 60  
 QY 61 TMTWTDGRTIHSGMRFRVLPGGLKYKQYERDAGVYVCKATNGFGSLVNTTLVLDI 120  
 DB 61 TMTWTDGRTIHSGMRFRVLPGGLKYKQYERDAGVYVCKATNGFGSLVNTTLVLDI 120  
 QY 121 SPKGSLSGPDSSGGGDEPDASQOMARPRTOPSKMRRIAPVSSVYRLCKVASGHPPL 180  
 DB 121 SPKGSLSGPDSSGGGDEPDASQOMARPRTOPSKMRRIAPVSSVYRLCKVASGHPPL 180  
 QY 181 DITWKKDQALTRPEAAEPRKKKWTLSLNLRPEDSGKTYTCVSNRAGAINATYKVDVIQ 240  
 DB 181 DITWKKDQALTRPEAAEPRKKKWTLSLNLRPEDSGKTYTCVSNRAGAINATYKVDVIQ 240  
 QY 241 RTRSRPVLTGTHPVNTTDFGCTSFQCKVRSDVYVIOMLKRVYGAEGRNSTIIDVG 300  
 DB 241 RTRSRPVLTGTHPVNTTDFGCTSFQCKVRSDVYVIOMLKRVYGAEGRNSTIIDVG 300  
 QY 301 QKFVVLPFGDVMSRPDGSYLKPL 324  
 DB 301 QKFVVLPFGDVMSRPDGSYLKPL 324

RESULT 2  
 ID AAU09810 standard; protein; 472 AA.  
 XX AAU09810;  
 XX  
 XX 27-FEB-2002 (first entry)  
 XX  
 XX Human fibroblast growth factor receptor-like protein.  
 DE Human; fibroblast growth factor receptor-like protein; FGFR-L; anorectic;  
 XX

KW haemostatic; osteopathic; cytostatic; nephrotoxic; antidiabetic;  
 KW immunomodulator; antiinflammatory; haematopoietic disorder; osteoporosis;  
 KW osteogenesis imperfecta; Paget's disease; periodontal disease; cancer;  
 KW hypercalcaemia; acute glomerulonephritis; chronic glomerulonephritis;  
 KW diabetes; obesity; cachexia; transgenic animal; gene therapy.  
 XX  
 XX Homo sapiens.  
 OS

Key Location/Qualifiers  
 FH 1..21  
 FH Peptide /note= "Signal peptide"  
 FT 22..472  
 FT Protein /note= "Mature fibroblast growth factor receptor-like  
 FT polypeptides, useful for treating hematopoietic disorder, osteoporosis,  
 FT Paget's disease, glomerulonephritis, cancer, diabetes, obesity and  
 FT cachexia."  
 FT Domain 379..399  
 FT /note= "Predicted transmembrane domain"

XX WO200170977-A2.  
 XX 27-SEP-2001.  
 XX 22-MAR-2001; 2001WO-US009073.  
 XX 22-MAR-2000; 2000US-0191379P.  
 XX (AMGE-) AMGEN INC.  
 XX (SARI/) SARIS C M.  
 XX (MUSX/) MU S X.  
 XX (XIMW/) XIA M.  
 XX (BOON/) BOONE T C.  
 XX (COVE/) COVEY T.  
 PI Saris CM, Mu SX, Xia M, Boone TC, Covey T;  
 XX WPI, 2001-626128/72.  
 DR N-PSDB; AAS14936.  
 XX

Novel nucleic acid encoding fibroblast growth factor receptor-like  
 PT polypeptides, useful for treating hematopoietic disorder, osteoporosis,  
 PT Paget's disease, glomerulonephritis, cancer, diabetes, obesity and  
 PT cachexia.  
 PS  
 XX

Claim 13; Fig 2; 163pp; English.

The invention relates to a novel isolated fibroblast growth factor  
 CC receptor-like (FGFR-L) polypeptide (I). (I) and the nucleic acid (II)  
 CC encoding (I) are useful for treating, preventing or ameliorating a  
 CC medical condition including hematopoietic disorder, osteoporosis,  
 CC osteogenesis imperfecta, Paget's disease, periodontal disease,  
 CC hypercalcaemia, acute glomerulonephritis, chronic glomerulonephritis,  
 CC cancer, diabetes, obesity and cachexia. (I) is also useful for  
 CC identifying a compound which binds to FGFR-L polypeptide, by contacting  
 CC (I) with a compound, determining the extent of binding of the FGFR-L  
 CC polypeptide to the compound, and determining the activity of the  
 CC polypeptide when bound to the compound. (II) is useful for modulating (I)  
 CC levels of a polypeptide in an animal. A transgenic animal comprising (I)  
 CC is useful for determining whether a compound inhibits FGFR-L polypeptide  
 CC activity or FGFR-L polypeptide production, by exposing the transgenic  
 CC animal to the compound and measuring FGFR-L polypeptide or production in  
 CC the animal. (II) is useful for mapping the locations of FGFR-L gene and  
 CC related genes on chromosomes, as hybridisation probes in diagnostic  
 CC assays to test for the presence of an FGFR-L nucleic acid molecule in  
 CC mammalian tissue or bodily fluid samples, in gene therapy, and as tools  
 CC for isolating corresponding FGFR-L polypeptide genes. (I) is useful as  
 CC immunogen, and for cloning FGFR-L polypeptide ligands using an expression  
 CC cloning strategy. The present sequence represents the amino acid sequence  
 CC of human fibroblast growth factor receptor-like protein as described in  
 CC the invention  
 XX

Query Match 99.4%; Score 1707; DB 4; Length 472;  
 SQ Sequence 472 AA;



04-AUG-1998; 98US-0095321P.  
PR 04-AUG-1998; 98US-0095325P.  
PR 10-AUG-1998; 98US-0095916P.  
PR 10-AUG-1998; 98US-0095929P.  
PR 10-AUG-1998; 98US-0096012P.  
PR 11-AUG-1998; 98US-0096143P.  
PR 11-AUG-1998; 98US-0096146P.  
PR 12-AUG-1998; 98US-0096329P.  
PR 12-AUG-1998; 98US-0096375P.  
PR 17-AUG-1998; 98US-0096766P.  
PR 17-AUG-1998; 98US-0096768P.  
PR 17-AUG-1998; 98US-0096773P.  
PR 17-AUG-1998; 98US-0096791P.  
PR 17-AUG-1998; 98US-0096867P.  
PR 17-AUG-1998; 98US-0096891P.  
PR 17-AUG-1998; 98US-0096894P.  
PR 17-AUG-1998; 98US-0096895P.  
PR 17-AUG-1998; 98US-0096897P.  
PR 18-AUG-1998; 98US-0096949P.  
PR 18-AUG-1998; 98US-0096950P.  
PR 18-AUG-1998; 98US-0096959P.  
PR 18-AUG-1998; 98US-0096960P.  
PR 18-AUG-1998; 98US-0097022P.  
PR 19-AUG-1998; 98US-0097141P.  
PR 20-AUG-1998; 98US-0097218P.  
PR 24-AUG-1998; 98US-0097661P.  
PR 26-AUG-1998; 98US-0097951P.  
PR 26-AUG-1998; 98US-0097952P.  
PR 26-AUG-1998; 98US-0097954P.  
PR 26-AUG-1998; 98US-0097955P.  
PR 26-AUG-1998; 98US-0097971P.  
PR 26-AUG-1998; 98US-0097974P.  
PR 26-AUG-1998; 98US-0097978P.  
PR 26-AUG-1998; 98US-0097979P.  
PR 26-AUG-1998; 98US-0097986P.  
PR 26-AUG-1998; 98US-0098014P.  
PR 31-AUG-1998; 98US-0098525P.  
PR 16-SEP-1998; 98US-0100634P.  
PR 12-JAN-1999; 99US-0115565P.  
  
(GENTH ) GENENTECH INC.  
XX PA  
XX Baker K, Chen J, Goddard A, Gurney AL, Smith V, Watanabe CK,  
PI Wood WI, Yuan J;  
XX WPI; 2000-072883/06.  
DR N-PSDB; AAZ64984.  
XX PT  
XX Membrane-bound proteins and related nucleotide sequences.  
XX  
XX Claim 12; Fig 70; 822p; English.  
XX  
XX The invention provides membrane-bound PRO polypeptides and  
CC polynucleotides encoding them. The PRO sequences of the invention were  
CC identified based on extracellular domain homology screening. The PRO  
CC sequences have homology with proteins including LDL receptors, TIR  
CC ligands and various enzymes. The membrane-bound proteins and receptor  
CC molecules are useful as pharmaceutical and diagnostic agents. Receptor  
CC immunoadhesins, for instance, can be used as therapeutic agents to block  
CC receptor-ligand interactions. The membrane-bound proteins can also be  
CC employed for screening of potential peptide or small molecule inhibitors  
CC of the relevant receptor/ligand interaction. The PRO encoding sequences  
CC are useful as hybridization probes, in chromosome and gene mapping and in  
CC the generation of antisense RNA and DNA. PRO nucleic acid sequences will  
CC also be useful for the preparation of PRO polypeptides, especially by  
CC recombinant techniques  
XX  
XX Sequence 504 AA;  
XX

QY	1	MTSPSLILLILLPILLIGAPPAAARGPBKXADKVPQVARIKRTVRLQCPVEGDPEPL	60
Db	1	MTSPSLILLILLPILLIGAPPAAARGPBKXADKVPQVARIKRTVRLQCPVEGDPEPL	60
QY	61	TMWTKDGRTHSGWSRFVLPGALKVKQVEREDAGVYCKATNGFSGLSVYTLVLDDI	120
Db	61	TMWTKDGRTHSGWSRFVLPGALKVKQVEREDAGVYCKATNGFSGLSVYTLVLDDI	120
QY	121	SPGKESLIGPDSSSGGDEPDASQOMARPRFTQPSKXRRRVIARPVGSSVRLKCVASGHPRP	180
Db	121	SPGKESLIGPDSSSGGDEPDASQOMARPRFTQPSKXRRRVIARPVGSSVRLKCVASGHPRP	180
QY	181	DIITWKKDDQALITPEBAEPRKKKWTLSLKNLRPEDSGKTTTRVSNRAGALNATYKDVIO	240
Db	181	DIITWKKDDQALITPEBAEPRKKKWTLSLKNLRPEDSGKTTTRVSNRAGALNATYKDVIO	240
QY	241	RTSSKPLVLGTHVNTTVTFDGGTTSFQCKVRSVDVYVQWLKREYGAEGHNSTIDVGG	300
Db	241	RTSSKPLVLGTHVNTTVTFDGGTTSFQCKVRSVDVYVQWLKREYGAEGHNSTIDVGG	300
QY	301	QKFPVVLPTGDVWSRPGDGYLANKPL 324	
Db	301	QKFPVVLPTGDVWSRPGDGYLANKPL 324	

RESULT 4
AA92864
ID AA92864 standard; protein; 504 AA.
XX
AC AA92864;
XX
DT 29-AUG-2000 (first entry)
XX
DE Human fibroblast growth factor receptor 5.
XX
KW FGFR-5; fibroblast growth factor receptor 5; cytosolic; anti-sclerotic;
KW immunomodulatory; gastrointestinal; virucide; anti-inflammatory;
KW anti-ischemic; anti-atherosclerosis; angiogenic; endocrine;
KX anti-diabetic; gene therapy.
XX
OS Homo sapiens.
XX
FH Key
FT Peptide
FT     location/Qualifiers
FT         1..24
FT         /label= leader_sequence
FT         23..37
FT         /label= antigenic
FT         25..504
FT         /label= mature_protein
FT         25..117
FT         /label= extracellular
FT         /note= "immunoglobulin domain I"
FT         39..48
FT         /label= antigenic
FT         51..59
FT         /label= antigenic
FT         62..76
FT         /label= antigenic
FT         81..97
FT         /label= antigenic
FT         101..104
FT         /label= antigenic
FT         118..143
FT         /label= acid_box_domain
FT         119..170
FT         /label= antigenic
FT         144..239
FT         /label= extracellular
FT         /note= "immunoglobulin domain II"
FT         176..204
FT         /label= antigenic
FT         209..228
FT         /label= antigenic
FT         Peptide



XX Thirti PRO polynucleotides encoding PRO polypeptides, useful in the  
 PT treatment, diagnosis and prevention of cancer.  
 XX

PS Claim 61; Fig 20; 286bp; English.

XX The present invention describes an isolated antibody that binds to one of  
 CC the human PRO proteins designated PRO212, PRO290, PRO341, PRO355, PRO619,  
 CC PRO717, PRO809, PRO840, PRO848, PRO1005, PRO1009, PRO1025,  
 CC PRO1030, PRO1097, PRO1107, PRO1111, PRO1153, PRO1182, PRO1184, PRO1187,  
 CC PRO1281, PRO23, PRO39, PRO834, PRO1317, PRO1710, PRO2094, PRO2145 OR  
 CC PRO2198. PRO antagonists can be used to inhibit tumour cell growth. The  
 CC PRO polypeptides and nucleotides are useful in the treatment, diagnosis  
 CC and prevention of cancer. The antibodies and other anti-tumour compounds  
 CC maybe used to treat various conditions, including those characterised by  
 CC overexpression and/or activation of the amplified PRO genes. Exemplary  
 CC conditions or disorders to be treated with such antibodies and other  
 CC compounds include benign or malignant tumours (e.g., renal, liver,  
 CC kidney, bladder, breast, gastric, ovarian, colorectal, prostate,  
 CC pancreatic, lung, vulva, thyroid, hepatic carcinomas, sarcomas,  
 CC glioblastomas, and various head and neck tumours), leukaemias and  
 CC lymphoid malignancies, other disorders such as neuronal, glial,  
 CC astrocytal, hypothalamic and other glandular, macrophagal, epithelial,  
 CC stromal and blastocoele disorders, and inflammatory, angiogenic and  
 CC immunologic disorders. AAC58242 to AAC58366 represent PCR primers and  
 CC hybridisation probes used in the isolation of the human PRO sequences.  
 CC AAC58367 to AAC58396 and AAB24057 to AAB24089 represent human PRO  
 CC polynucleotide and protein sequences given in the exemplification of the  
 CC present invention

XX Sequence 504 AA;

XX Query Match 99.4%; Score 1707; DB 3; Length 504;  
 XX Best Local Similarity 99.7%; Pred. No. 1.5e-117;  
 XX Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MTPSPILLILLLPPLILGAPPPAAAGPPKADKVPVROVARLGRVRLQCEVEGDPPL 60  
 DB 1 MTPSPILLILLLPPLILGAPPPAAAGPPKADKVPVROVARLGRVRLQCEVEGDPPL 60  
 QY 61 TMTWTDGRTTHSGWSPFRVLPGGLKVKOVEREDAGVYVCKATNGSGLSVNTLVLLDDI 120  
 DB 61 TMTWTDGRTTHSGWSPFRVLPGGLKVKOVEREDAGVYVCKATNGSGLSVNTLVLLDDI 120  
 QY 121 SPKESLIGPDSSSGGQEDPASQOMARPRFTQPSKMRRIARPVGSSVRLKCVASGHRP 180  
 DB 121 SPKESLIGPDSSSGGQEDPASQOMARPRFTQPSKMRRIARPVGSSVRLKCVASGHRP 180  
 QY 181 DITWTKDDQALTRPEAAEPKRRKWTLSLKNLRPEBSGKTYCRVSNRAGAINATYKVDVIO 240  
 DB 181 DITWTKDDQALTRPEAAEPKRRKWTLSLKNLRPEBSGKTYCRVSNRAGAINATYKVDVIO 240  
 QY 241 RTRSKPVLGTGHPVNTVDFGTTSFQCKVRSADVPIQMLKRVYGAEGRHNSITIDVG 300  
 DB 241 RTRSKPVLGTGHPVNTVDFGTTSFQCKVRSADVPIQMLKRVYGAEGRHNSITIDVG 300  
 QY 301 QKFVVLPTGDVWSRPDGSYLKPL 324  
 DB 301 QKFVVLPTGDVWSRPDGSYLKPL 324

RESULT 6  
 AAB66264  
 ID AAB66264 standard; protein; 504 AA.

XX AAB66264;

XX 05-APR-2001 (first entry)

XX Human MANGO 003 SEQ ID NO: 5.

XX Membrane associated protein; secreted protein; human; mouse; rat;  
 KM INTERCEPT 340; MANGO 003; MANGO 347; TANGO 272; TANGO 295; TANGO 354;

KW TANGO 378; skeletal disorder; cardiovascular disorder; renal disorder;  
 KW haematopoietic disorder; neural disorder; hepatic disorder;  
 KW neoplastic disease.

XX Homo sapiens.

XX WO20010673-A1.

XX 04-JAN-2001.

XX 29-JUN-2000; 2000MO-US018198.

XX 30-JUN-1999; 99US-00345464.

XX (MILL-) MILLENNIUM PHARM INC.

XX Barnes TM, Fraser CC, Wrighton N, Myers P, Buefield SJ, Sharp JD;

XX WPI; 2001-050128/06.

XX N-PSDB; AAF27781.

XX Isolated secreted or transmembrane proteins are used for diagnosis and  
 PT treatment of neoplastic and hematopoietic disorders e.g. T cell  
 PT disorders, cancer and tumors.

XX Claim 9; Page 216-217; 294pp; English.

XX The present invention provides the protein and coding sequences for a  
 CC number of membrane associated and secreted proteins from human, mouse and  
 CC rat. The proteins are designated INTERCEPT 340, MANGO 003, MANGO 347,  
 CC TANGO 272, TANGO 295, TANGO 254 and TANGO 378. The proteins are all  
 CC involved in signal transduction and the sequences can be used in the  
 CC treatment of cardiovascular, renal, hepatic, neural, neoplastic, skeletal  
 CC and haematopoietic disorders

XX Sequence 504 AA;

XX Query Match 99.4%; Score 1707; DB 4; Length 504;  
 XX Best Local Similarity 99.7%; Pred. No. 1.5e-117;  
 XX Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MTPSPILLILLLPPLILGAPPPAAAGPPKADKVPVROVARLGRVRLQCEVEGDPPL 60  
 DB 1 MTPSPILLILLLPPLILGAPPPAAAGPPKADKVPVROVARLGRVRLQCEVEGDPPL 60  
 QY 61 TMTWTDGRTTHSGWSPFRVLPGGLKVKOVEREDAGVYVCKATNGSGLSVNTLVLLDDI 120  
 DB 61 TMTWTDGRTTHSGWSPFRVLPGGLKVKOVEREDAGVYVCKATNGSGLSVNTLVLLDDI 120  
 QY 121 SPKESLIGPDSSSGGQEDPASQOMARPRFTQPSKMRRIARPVGSSVRLKCVASGHRP 180  
 DB 121 SPKESLIGPDSSSGGQEDPASQOMARPRFTQPSKMRRIARPVGSSVRLKCVASGHRP 180  
 QY 181 DITWTKDDQALTRPEAAEPKRRKWTLSLKNLRPEBSGKTYCRVSNRAGAINATYKVDVIO 240  
 DB 181 DITWTKDDQALTRPEAAEPKRRKWTLSLKNLRPEBSGKTYCRVSNRAGAINATYKVDVIO 240  
 QY 241 RTRSKPVLGTGHPVNTVDFGTTSFQCKVRSADVPIQMLKRVYGAEGRHNSITIDVG 300  
 DB 241 RTRSKPVLGTGHPVNTVDFGTTSFQCKVRSADVPIQMLKRVYGAEGRHNSITIDVG 300  
 QY 301 QKFVVLPTGDVWSRPDGSYLKPL 324  
 DB 301 QKFVVLPTGDVWSRPDGSYLKPL 324

RESULT 7  
 AAB65179  
 ID AAB65179 standard; protein; 504 AA.

XX AAB65179;

XX 02-APR-2001 (first entry)

XX Human PRO943 (UNQ480) protein sequence SEQ ID NO:119.  
 XX  
 XX Human, secreted and transmembrane protein; PRO; cytosolic; cell death;  
 XX cancer; chromosomal mapping; gene mapping; tissue typing;  
 XX diagnostic assay.  
 XX  
 OS Homo sapiens.  
 XX  
 XX WO200073454-A1.  
 XX  
 XX 07-DEC-2000.  
 XX  
 XX 30-MAR-2000; 2000WO-US008439.  
 XX  
 XX 02-JUN-1999; 99WO-US012252.  
 XX 23-JUN-1999; 99US-0141037P.  
 XX 07-JUL-1999; 99US-0143048P.  
 XX 20-JUL-1999; 99US-0144758P.  
 XX 26-JUL-1999; 99US-0145698P.  
 XX 28-JUL-1999; 99US-0146222P.  
 XX 17-AUG-1999; 99US-0149396P.  
 XX 15-SEP-1999; 99WO-US021090.  
 XX 15-SEP-1999; 99WO-US021547.  
 XX 08-OCT-1999; 99US-0158663P.  
 XX 30-NOV-1999; 99WO-US028313.  
 XX 01-DEC-1999; 99WO-US028301.  
 XX 16-DEC-1999; 99WO-US030095.  
 XX 20-DEC-1999; 99WO-US030911.  
 XX 05-JAN-2000; 2000WO-US000219.  
 XX 06-JAN-2000; 2000WO-US000376.  
 XX 11-FEB-2000; 2000WO-US003565.  
 XX 18-FEB-2000; 2000WO-US004341.  
 XX 22-FEB-2000; 2000WO-US004414.  
 XX 24-FEB-2000; 2000WO-US004914.  
 XX 24-FEB-2000; 2000WO-US005004.  
 XX 02-MAR-2000; 2000WO-US005841.  
 XX 15-MAR-2000; 2000WO-US006884.  
 XX 20-MAR-2000; 2000WO-US007377.  
 XX  
 XX (GETH ) GENENTECH INC.  
 XX  
 XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
 XX Ferrara N, Fong S, Garber H, Gerritsen ME, Goddard A, Godowski PJ;  
 XX Grimaldi CJ, Gurney AL, Kijavini J, Napier MA, Pan J, Paoni NF;  
 XX Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI,  
 XX Zhang Z;  
 XX WPI; 2001-032160/04.  
 XX N-PSDB; AAF44130.  
 XX  
 XX PRO polynucleotides used to produce polypeptides used to target bioactive  
 XX molecules such as toxins, radiolabels or antibodies, to specific cells,  
 XX to cause targeted cell death.  
 XX  
 XX Claim 12; Fig 70; 935pp; English.  
 XX  
 XX The present invention describes human secreted and transmembrane PRO  
 XX proteins. The PRO proteins have cytostatic activity. The PRO proteins can  
 XX be used for targeted delivery of bioactive molecules, such as toxins,  
 XX radiolabels or antibodies, that cause cell death. PRO nucleotide  
 XX sequences, and their fragments, can be used as hybridisation probes, in  
 XX chromosomal and gene mapping, and in the generation of anti-sense RNA and  
 XX DNA. They may also be used to produce transgenic animals which are used  
 XX to develop and screen therapeutically useful reagents. The PRO nucleotide  
 XX and protein sequence can be used for tissue typing and in treating  
 XX cancer. Anti-PRO antibodies can be used in diagnostic assays. AAF4270 to  
 XX AAF44470 represent PCR primers and hybridisation probes used in the  
 XX isolation of human PRO sequences. AAF44087 to AAF44269 and AAF65154 to  
 XX AAF65300 represent human PRO polynucleotide and protein sequences given  
 XX in the exemplification of the present invention  
 XX  
 XX Sequence 504 AA;  
 XX  
 XX SQ

Query Match 99.4%; Score 1707; DB 4; Length 504;  
 Best Local Similarity 99.7%; Pred. No. 1,5e-117;  
 Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 1 MTPSPLLLLPLPPLLGAPPAAAGPPKADKVPKROVARIGRVRLQCPVEGDPPL 60  
 DB 1 MTPSPLLLLPLPPLLGAPPAAAGPPKADKVPKROVARIGRVRLQCPVEGDPPL 60  
 QY 61 TMTXDGRTIHSGWRSFRVLPQGLKVKQVEREDAGVYVCATNGSGSLVNTLVLD01 120  
 DB 61 TMTXDGRTIHSGWRSFRVLPQGLKVKQVEREDAGVYVCATNGSGSLVNTLVLD01 120  
 QY 121 SPKESLGPDSGGGQEDPASQOMARPRFTOPSXMRRIARVPGSSVRLKCVASGHPR 180  
 DB 121 SPKESLGPDSGGGQEDPASQOMARPRFTOPSXMRRIARVPGSSVRLKCVASGHPR 180  
 QY 181 DITWMDQALTRPEAAERPKKKTLSLKNLPEDESGKTYCRVSNRAGAIMATYKVVDIQ 240  
 DB 181 DITWMDQALTRPEAAERPKKKTLSLKNLPEDESGKTYCRVSNRAGAIMATYKVVDIQ 240  
 QY 241 RTRSKPVLGTGHPVNTTVDFFGTTSPQCKVRSVDFVIOMLKRVYGAGSRHNSITDVG 300  
 DB 241 RTRSKPVLGTGHPVNTTVDFFGTTSPQCKVRSVDFVIOMLKRVYGAGSRHNSITDVG 300  
 QY 301 QKFTVLPFGDWMRPPGSLINKPL 324  
 DB 301 QKFTVLPFGDWMRPPGSLINKPL 324

## RESULT 8

AAU77790  
 ID AAU77790 standard; protein; 504 AA.

AAU77790;  
 AC

05-JUN-2002 (first entry)  
 DT

Human PRO943 protein.  
 DE

PRO; cancer; neoplastic; human; tumour; PRO943; PRO1250; PRO1337;  
 KW breast cancer; ovarian cancer; colorectal cancer; lung cancer;  
 KW central nervous system cancer; melanoma; leukaemia.

Homo sapiens.  
 OS

WO200149715-A2.  
 PN

12-JUL-2001.  
 XX

08-NOV-2000; 2000WO-US030952.  
 XX

06-JAN-2000; 2000WO-US000376.  
 XX

18-FEB-2000; 2000WO-US004342.  
 XX

02-MAR-2000; 2000WO-US005841.  
 XX

30-MAR-2000; 2000WO-US008439.  
 XX

28-JUL-2000; 2000WO-US020710.  
 XX

(GETH ) GENENTECH INC.  
 PA

Ashkenazi AJ, Goddard A, Gurney AL, Napier MA, Watanabe CK;  
 PI Wood WI;  
 XX

WPI; 2002-256031/30.  
 XX

Composition for inhibiting neoplastic cell growth or treating tumors  
 PT e.g. breast cancer and ovarian cancer in mammals comprising PRO943,  
 PT PRO1250 or PRO1337 or its agonist.  
 XX

Claim 19; Fig 2; 101pp; English.  
 PS

This sequence relates to a novel composition useful for inhibiting  
 XX





Db 241 RTRSKPVLGTHPVTNTVDFGTTSFQCKVRSVKEVIOQLKREYGAEGRHNSTIDVG 300  
 QY 301 QKFFVLPTGDVWSRPDGSYLKRL 324  
 Db 301 QKFFVLPTGDVWSRPDGSYLKRL 324

RESULT 10  
 AAU81961  
 ID AAU81961 standard; protein; 504 AA.  
 AC AAU81961;  
 XX  
 DT 09-APR-2002 (first entry)  
 DE  
 XX Human PRO943.  
 XX  
 KW Human; PRO; antiinflammatory; ophthalmological; vasotropic;  
 KW retinal cell injury; ocular disease; retinitis pigmentosa;  
 KW macular degeneration; retinal detachment; retinal tear; retinopathy;  
 KW retinal degenerative disease; macular hole; degenerative myopia;  
 KW acute retinal necrosis syndrome; traumatic chorioretinopathy;  
 KW Purtscher's retinopathy; oedema; ischaemic condition;  
 KW retinal vision occlusion; collagen vascular disease;  
 KW thrombocytopaenic purpura; uveitis; retinal vasculitis; Eales disease;  
 KW systemic lupus erythematosus; environmental trauma.

XX Homo sapiens.  
 OS  
 XX WO200109327-A2.  
 PN  
 XX 08-FEB-2001.  
 PD  
 XX 28-JUL-2000; 2000WO-US020710.  
 PF  
 XX 28-JUL-1999; 99US-0146222P.  
 XX 13-SEP-1999; 99WO-US020944.  
 PR 15-SEP-1999; 99WO-US021090.  
 PR 29-NOV-1999; 99WO-US028214.  
 PR 30-NOV-1999; 99WO-US028313.  
 PR 01-DEC-1999; 99WO-US028310.  
 PR 05-JAN-2000; 2000WO-US000219.  
 PR 06-JAN-2000; 2000WO-US000376.  
 PR 11-FEB-2000; 2000WO-US003565.  
 PR 18-FEB-2000; 2000WO-US004341.  
 PR 22-FEB-2000; 2000WO-US004414.  
 PR 24-FEB-2000; 2000WO-US005004.  
 PR 02-MAR-2000; 2000WO-US005841.  
 PR 15-MAR-2000; 2000WO-US006884.  
 PR 30-MAR-2000; 2000WO-US008439.  
 PR 17-MAY-2000; 2000WO-US013705.  
 XX  
 PA (GETH ) GENENTECH INC.  
 XX  
 XX Ashkenazi AJ, Baker KP, Goddard A, Godowski PJ, Gurney AL;  
 PI Kijavlin IU, Lafleur M, Mark MR, Marsters SA, Pitti RM, Watanabe CK;  
 PI Wood WI;  
 XX  
 DR WPI; 2002-130120/17.  
 DR N-PSDB; ABK28591.  
 XX  
 PT Promoting survival of retinal cells, or delaying or preventing retinal  
 cell injury or death, by contacting retinal cells with PRO175, 220, 216,  
 PT 243, 306, 346, 322, 536, 943, 840, 828, 826, 1068 or PRO1132 polypeptide.  
 XX  
 XX Claim 44; Fig 19; 152pp; English.

CC The invention relates to promoting the survival of retinal cells, or  
 CC delaying or preventing retinal cell injury or death, by contacting the  
 CC retinal cells with the polypeptide such as PRO175, PRO220, PRO216,  
 CC PRO243, PRO306, PRO346, PRO322, PRO536, PRO840, PRO828, PRO826,  
 CC PRO1068 or PRO1132 polypeptide. Also included are the nucleic acids  
 CC encoding the PRO proteins, a vector comprising the nucleic acid, a host

CC cell comprising the vector, and anti-PRO antibody. The PRO proteins are  
 CC useful for promoting survival of retinal cells (retinal neurons such as  
 CC retinal ganglion cells, displaced retinal ganglion cells, amacrine cells,  
 CC displaced amacrine cells, horizontal neurons or bipolar neurons, rod  
 CC photoreceptors, or supportive cells such as Muller cells or pigment  
 CC epithelial cells), or delaying or preventing retinal cell injury or death  
 CC caused by ocular disease (which is or is associated with retinitis  
 CC pigmentosa, macular degeneration, retinal detachment, retinal tear,  
 CC retinopathy, retinal degenerative disease, macular hole, degenerative  
 CC myopia, acute retinal necrosis syndrome, traumatic chorioretinopathy or  
 CC central or branch retinal vision occlusion, collagen vascular disease,  
 CC thrombocytopaenic purpura, uveitis, retinal vasculitis, occlusion  
 CC associated with Eales disease or systemic lupus erythematosus), retinal  
 CC injury or environmental trauma. The retinal cell injury or death is  
 CC delayed or prevented by substantially not causing angiogenesis or  
 CC mitogenesis. The present sequence represents a PRO protein

XX  
 XX Sequence 504 AA;  
 SQ

Query Match 99.4%; Score 1707; DB 5; Length 504;  
 Best Local Similarity 99.7%; Pred. No. 1,5e-117;  
 Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MTPSPILLLLPPLILGAFPPAAAAGPPKMDKVPPOVARIGRTVRLQCPVEGDPPL 60  
 Db 1 MTPSPILLLLPPLILGAFPPAAAAGPPKMDKVPPOVARIGRTVRLQCPVEGDPPL 60

QY 61 TWTMDKRTIHSGMSFRVLPQGLKVKOVEREDAGYVCKATNGFSLSYNTLVLDI 120  
 Db 61 TWTMDKRTIHSGMSFRVLPQGLKVKOVEREDAGYVCKATNGFSLSYNTLVLDI 120

QY 121 SPKESLGPDPSSGCGEDPASQOMARPRFTQPSKMRRTVAVRVGSSVRLKCVASGHP 180  
 Db 121 SPKESLGPDPSSGCGEDPASQOMARPRFTQPSKMRRTVAVRVGSSVRLKCVASGHP 180

QY 181 DITWMDKODALTPEAAEPKKKWTLSLKLRLPESDGYTCRVSNBAGAINATYKVDVIQ 240  
 Db 181 DITWMDKODALTPEAAEPKKKWTLSLKLRLPESDGYTCRVSNBAGAINATYKVDVIQ 240

QY 241 RTRSKPVLGTHPVTNTVDFGTTSFQCKVRSVKEVIOQLKREYGAEGRHNSTIDVG 300  
 Db 241 RTRSKPVLGTHPVTNTVDFGTTSFQCKVRSVKEVIOQLKREYGAEGRHNSTIDVG 300

QY 301 QKFFVLPTGDVWSRPDGSYLKRL 324  
 Db 301 QKFFVLPTGDVWSRPDGSYLKRL 324

RESULT 11  
 ABUS7994  
 ID ABUS7994 standard; protein; 504 AA.  
 AC  
 XX ABUS7994;  
 AC  
 XX 14-APR-2003 (first entry)  
 DT  
 XX Human PRO polypeptide #26.  
 DE  
 XX  
 XX Human; PRO; cytostatic; tumour; cancer; breast; lung; stomach; liver;  
 KW horse; cow; dog; sheep; pig; goat; rabbit; ADEPT;  
 KW antibody-dependent enzyme mediated prodnug therapy.  
 XX  
 OS Homo sapiens.  
 XX  
 XX US2003027163-A1.  
 XX  
 XX 06-FEB-2003.  
 XX  
 XX 15-NOV-2001; 2001US-0097666.  
 XX  
 XX 16-JUN-1997; 97US-0049787P.  
 XX  
 XX 17-OCT-1997; 97US-0062250P.

PR 05-NOV-1997; 97WO-US020069.  
PR 12-NOV-1997; 97US-0065186P.  
PR 13-NOV-1997; 97US-0065311P.  
PR 24-NOV-1997; 97US-0066770P.  
PR 25-FEB-1998; 98US-0075945P.  
PR 20-MAR-1998; 98US-0078910P.  
PR 28-APR-1998; 98US-0083322P.  
PR 07-MAY-1998; 98US-0084600P.  
PR 28-MAY-1998; 98US-0087106P.  
PR 02-JUN-1998; 98US-0087607P.  
PR 02-JUN-1998; 98US-0087609P.  
PR 02-JUN-1998; 98US-0087759P.  
PR 03-JUN-1998; 98US-0087827P.  
PR 04-JUN-1998; 98US-0088021P.  
PR 04-JUN-1998; 98US-0088025P.  
PR 04-JUN-1998; 98US-0088026P.  
PR 04-JUN-1998; 98US-0088028P.  
PR 04-JUN-1998; 98US-0088029P.  
PR 04-JUN-1998; 98US-0088030P.  
PR 04-JUN-1998; 98US-0088033P.  
PR 04-JUN-1998; 98US-0088326P.  
PR 05-JUN-1998; 98US-0088367P.  
PR 05-JUN-1998; 98US-0088202P.  
PR 05-JUN-1998; 98US-0088212P.  
PR 05-JUN-1998; 98US-0088217P.  
PR 09-JUN-1998; 98US-0088655P.  
PR 10-JUN-1998; 98US-0088734P.  
PR 10-JUN-1998; 98US-0088738P.  
PR 10-JUN-1998; 98US-0088742P.  
PR 10-JUN-1998; 98US-0088810P.  
PR 10-JUN-1998; 98US-0088824P.  
PR 10-JUN-1998; 98US-0088826P.  
PR 11-JUN-1998; 98US-0088858P.  
PR 11-JUN-1998; 98US-0088861P.  
PR 11-JUN-1998; 98US-0088875P.  
PR 12-JUN-1998; 98US-0089105P.  
PR 16-JUN-1998; 98US-0089440P.  
PR 16-JUN-1998; 98US-0089512P.  
PR 16-JUN-1998; 98US-0089514P.  
PR 17-JUN-1998; 98US-0089532P.  
PR 17-JUN-1998; 98US-0089538P.  
PR 17-JUN-1998; 98US-0089598P.  
PR 17-JUN-1998; 98US-0089599P.  
PR 17-JUN-1998; 98US-0089600P.  
PR 17-JUN-1998; 98US-0089633P.  
PR 18-JUN-1998; 98US-0089801P.  
PR 18-JUN-1998; 98US-0089807P.  
PR 18-JUN-1998; 98US-0089908P.  
PR 19-JUN-1998; 98US-0089947P.  
PR 19-JUN-1998; 98US-0089948P.  
PR 19-JUN-1998; 98US-0089952P.  
PR 22-JUN-1998; 98US-0090246P.  
PR 22-JUN-1998; 98US-0090252P.  
PR 22-JUN-1998; 98US-0090254P.  
PR 23-JUN-1998; 98US-0090349P.  
PR 23-JUN-1998; 98US-0090355P.  
PR 24-JUN-1998; 98US-0090429P.  
PR 24-JUN-1998; 98US-0090431P.  
PR 24-JUN-1998; 98US-0090435P.  
PR 24-JUN-1998; 98US-0090444P.  
PR 24-JUN-1998; 98US-0090445P.  
PR 24-JUN-1998; 98US-0090472P.  
PR 24-JUN-1998; 98US-0090535P.  
PR 24-JUN-1998; 98US-0090540P.  
PR 24-JUN-1998; 98US-0090542P.  
PR 24-JUN-1998; 98US-0090577P.  
PR 25-JUN-1998; 98US-0090676P.  
PR 25-JUN-1998; 98US-0090678P.  
PR 25-JUN-1998; 98US-0090694P.  
PR 25-JUN-1998; 98US-0090694P.  
PR 25-JUN-1998; 98US-0090695P.  
PR 25-JUN-1998; 98US-0090696P.  
PR 26-JUN-1998; 98US-0090862P.

PR 26-JUN-1998; 98US-0090863P.  
PR 01-JUL-1998; 98US-0091360P.  
PR 01-JUL-1998; 98US-0091544P.  
PR 02-JUL-1998; 98US-0091478P.  
PR 02-JUL-1998; 98US-0091519P.  
PR 02-JUL-1998; 98US-0091626P.  
PR 02-JUL-1998; 98US-0091628P.  
PR 02-JUL-1998; 98US-0091633P.  
PR 02-JUL-1998; 98US-0091646P.  
PR 02-JUL-1998; 98US-0091673P.  
PR 02-JUL-1998; 98US-0091677P.  
PR 07-JUL-1998; 98US-0091978P.  
PR 07-JUL-1998; 98US-0091982P.  
PR 09-JUL-1998; 98US-0092182P.  
PR 10-JUL-1998; 98US-0092472P.  
PR 20-JUL-1998; 98US-0093339P.  
PR 30-JUL-1998; 98US-0094651P.  
PR 04-AUG-1998; 98US-0095285P.  
PR 04-AUG-1998; 98US-0095301P.  
PR 04-AUG-1998; 98US-0095302P.  
PR 04-AUG-1998; 98US-0095318P.  
PR 04-AUG-1998; 98US-0095321P.  
PR 04-AUG-1998; 98US-0095325P.  
PR 10-AUG-1998; 98US-0095916P.  
PR 10-AUG-1998; 98US-0095929P.  
PR 10-AUG-1998; 98US-0096012P.  
PR 11-AUG-1998; 98US-0096143P.  
PR 11-AUG-1998; 98US-0096146P.  
PR 12-AUG-1998; 98US-0096329P.  
PR 17-AUG-1998; 98US-0096757P.  
PR 17-AUG-1998; 98US-0096766P.  
PR 17-AUG-1998; 98US-0096768P.  
PR 17-AUG-1998; 98US-0096773P.  
PR 17-AUG-1998; 98US-0096791P.  
PR 17-AUG-1998; 98US-0096867P.  
PR 17-AUG-1998; 98US-0096891P.  
PR 17-AUG-1998; 98US-0096894P.  
PR 17-AUG-1998; 98US-0096895P.  
PR 17-AUG-1998; 98US-0096897P.  
PR 18-AUG-1998; 98US-0096949P.  
PR 18-AUG-1998; 98US-0096950P.  
PR 18-AUG-1998; 98US-0096959P.  
PR 18-AUG-1998; 98US-0096960P.  
PR 18-AUG-1998; 98US-0097022P.  
PR 19-AUG-1998; 98US-0097141P.  
PR 20-AUG-1998; 98US-0097218P.  
PR 24-AUG-1998; 98US-0097661P.  
PR 26-AUG-1998; 98US-0097952P.  
PR 26-AUG-1998; 98US-0097954P.  
PR 26-AUG-1998; 98US-0097955P.  
PR 26-AUG-1998; 98US-0097971P.  
PR 26-AUG-1998; 98US-0097974P.  
PR 26-AUG-1998; 98US-0097978P.  
PR 26-AUG-1998; 98US-0097979P.  
PR 26-AUG-1998; 98US-0097986P.  
PR 26-AUG-1998; 98US-0098014P.  
PR 31-AUG-1998; 98US-0098525P.  
PR 16-SEP-1998; 98US-0100634P.  
PR 16-SEP-1998; 98WO-US019310.  
PR 17-SEP-1998; 98US-0100859P.  
PR 17-SEP-1998; 98WO-US019437.  
PR 07-OCT-1998; 98WO-US021141.  
PR 01-DEC-1998; 98WO-US021108.  
PR 22-DEC-1998; 98US-0113296P.  
PR 05-JAN-1999; 99WO-US000106.  
PR 08-MAR-1999; 99WO-US005028.  
PR 12-MAR-1999; 99US-0123957P.  
PR 02-JUN-1999; 99WO-US021252.  
PR 23-JUN-1999; 99US-0141037P.  
PR 07-JUL-1999; 99US-0143048P.  
PR 20-JUL-1999; 99US-0144758P.  
PR 26-JUL-1999; 99US-0145698P.  
PR 28-JUL-1999; 99US-0146222P.

PR 17-AUG-1999; 99US-0149396P.  
PR 15-SEP-1999; 99WO-US021090.  
PR 15-SEP-1999; 99WO-US021547.  
PR 08-OCT-1999; 99US-0158663P.  
PR 30-NOV-1999; 99WO-US028313.  
PR 01-DEC-1999; 99WO-US028301.  
PR 01-DEC-1999; 99WO-US028634.  
PR 16-DEC-1999; 99WO-US030095.  
PR 20-DEC-1999; 99WO-US030911.  
PR 05-JAN-2000; 2000WO-US000219.  
PR 06-JAN-2000; 2000WO-US000376.  
PR 11-FEB-2000; 2000WO-US003565.  
PR 18-FEB-2000; 2000WO-US004341.  
PR 22-FEB-2000; 2000WO-US004414.  
PR 24-FEB-2000; 2000WO-US004914.  
PR 24-FEB-2000; 2000WO-US005004.  
PR 02-MAR-2000; 2000WO-US005841.  
PR 10-MAR-2000; 2000WO-US006319.  
PR 15-MAR-2000; 2000WO-US006884.  
PR 20-MAR-2000; 2000WO-US007377.  
PR 30-MAR-2000; 2000WO-US008439.  
PR 15-MAY-2000; 2000WO-US013358.  
PR 17-MAY-2000; 2000WO-US013705.  
PR 22-MAY-2000; 2000WO-US014042.  
PR 30-MAY-2000; 2000WO-US014941.  
PR 02-JUN-2000; 2000WO-US015264.  
PR 23-JUN-2000; 2000WO-US021637P.  
PR 28-JUL-2000; 2000WO-US020710.  
PR 11-AUG-2000; 2000WO-US022031.  
PR 23-AUG-2000; 2000WO-US023522.  
PR 24-AUG-2000; 2000WO-US023328.  
PR 07-SEP-2000; 2000US-0230978P.

Query Match 99.4%; Score 1707; DB 6; Length 504;

Best Local Similarity 99.7%; Pred. No. 1.5e-117; Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MTSPPLLLLLPPLLLGAFPPAAAGRPKXADRVPRQVARIQRTVRLCCPVGGDPPL 60  
DB 1 MTEPPLLLLLPPLLLGAFPPAAAGRPKXADRVPRQVARIQRTVRLCCPVGGDPPL 60  
QY 61 TMTTKDGRTHSGMSRRFVLPGGLKVKOVEREDGVVVCATNGFSLSVNTYTLVLDI 120  
DB 61 TMTTKDGRTHSGMSRRFVLPGGLKVKOVEREDGVVVCATNGFSLSVNTYTLVLDI 120  
QY 121 SPKGESLGPSSSGGQEDPASQOMARPRFTQPSKRRRVIRPVGSSVRLKCVASGHRP 180  
DB 121 SPKGESLGPSSSGGQEDPASQOMARPRFTQPSKRRRVIRPVGSSVRLKCVASGHRP 180  
QY 181 DITWMDQALTRPEAAEPRKKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240  
DB 181 DITWMDQALTRPEAAEPRKKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240  
QY 241 RTREKPVLTGTHPVNTYVDFGCTTSFQCKVRSVYKPYQLKRYEAGEGHNSTIVVG 300  
DB 241 RTREKPVLTGTHPVNTYVDFGCTTSFQCKVRSVYKPYQLKRYEAGEGHNSTIVVG 300  
QY 301 OKFVVLPTGDVWSRPDGSYLKPL 324  
DB 301 OKFVVLPTGDVWSRPDGSYLKPL 324

RESULT 12

ABUS9072 standard; protein; 504 AA.

ABUS9072;

28-APR-2003 (first entry)

Novel human secreted or transmembrane protein PRO943.

Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;

KW cardiac insufficiency disorder; cancer; tumour; immune response;  
KW adrenal cortical capillary endothelial growth; c-fos induction;  
KW vascular endothelial growth factor inhibition; VEGF inhibition;  
KW retinal neurons cell growth inhibitor; T-lymphocyte stimulation;  
KW retinal disorders; retinitis pigmentosa; kidney disorder;  
KW mammalian kidney mesangial cell proliferation; Berger disease;  
KW dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;  
KW chondrocyte redifferentiation; sports injury; arthritis.  
XX  
XX Homo sapiens.  
XX  
XX US2002132252-A1.  
XX  
XX 19-SEP-2002.  
XX  
XX 14-NOV-2001; 2001US-00990442.  
XX  
XX 16-JUN-1997; 97US-0049787P.  
XX 17-OCT-1997; 97US-0062250P.  
XX 05-NOV-1997; 97WO-US020069.  
XX 12-NOV-1997; 97US-0065186P.  
XX 13-NOV-1997; 97US-0065311P.  
XX 24-NOV-1997; 97US-0066770P.  
XX 25-FEB-1998; 98US-0075945P.  
XX 20-MAR-1998; 98US-0078910P.  
XX 28-APR-1998; 98US-0083322P.  
XX 07-MAY-1998; 98US-0084600P.  
XX 28-MAY-1998; 98US-0087106P.  
XX 02-JUN-1998; 98US-0087607P.  
XX 02-JUN-1998; 98US-0087609P.  
XX 02-JUN-1998; 98US-0087759P.  
XX 03-JUN-1998; 98US-0087827P.  
XX 04-JUN-1998; 98US-0088021P.  
XX 04-JUN-1998; 98US-0088025P.  
XX 04-JUN-1998; 98US-0088026P.  
XX 04-JUN-1998; 98US-0088028P.  
XX 04-JUN-1998; 98US-0088029P.  
XX 04-JUN-1998; 98US-0088030P.  
XX 04-JUN-1998; 98US-0088033P.  
XX 04-JUN-1998; 98US-0088326P.  
XX 05-JUN-1998; 98US-0088167P.  
XX 05-JUN-1998; 98US-0088202P.  
XX 05-JUN-1998; 98US-0088212P.  
XX 05-JUN-1998; 98US-0088217P.  
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XX 05-JAN-1999; 99WO-US000106.

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 PR 11-FEB-2000; 2000WO-US003565-  
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 PR 02-MAR-2000; 2000WO-US005841-  
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 PR 15-MAY-2000; 2000WO-US013358-  
 PR 17-MAY-2000; 2000WO-US013705-  
 PR 22-MAY-2000; 2000WO-US014042-  
 PR 30-MAY-2000; 2000WO-US014941-  
 PR 02-JUN-2000; 2000WO-US015264-  
 PR 28-JUL-2000; 2000WO-US020710-  
 PR 11-AUG-2000; 2000WO-US020231-  
 PR 23-AUG-2000; 2000WO-US023522-  
 PR 24-AUG-2000; 2000WO-US023328-  
 PR 08-NOV-2000; 2000WO-US030952-  
 PR 01-DEC-2000; 2000WO-US032678-  
 PR 28-FEB-2001; 2001WO-US006520-  
 PR 01-JUN-2001; 2001WO-US017800-  
 PR 20-JUN-2001; 2001WO-US019692-  
 PR 29-JUN-2001; 2001WO-US021066-  
 PR 09-JUL-2001; 2001WO-US021735-  
 PR 28-AUG-2001; 2001US-00941992-  
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 PA (GENTH ) GENENTECH INC.  
 PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DJ,  
 PI Ferrara N, Fong S, Gerdtzen ME, Goddard A, Godowski PJ,  
 PI Grimaldi JC, Gurney AL, Kijavyn IJ, Napier MA, Pan J, Peoni NF,  
 PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI,  
 PI Zhang Z,  
 XX  
 DR WPI; 2003-247083/24.  
 N-PSDB; ABX80197.  
 XX  
 PT Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346  
 PT and PRO1375, which stimulate proliferation of stimulated T-lymphocytes  
 PT are therapeutically useful for enhancing immune response and in cancer  
 PT treatments.  
 XX  
 PS Claim 12; Fig 70; 648pp; English.  
 XX  
 CC The invention describes an isolated human PRO polypeptide. The PRO  
 CC polypeptides are useful in detecting PRO polypeptides in a sample, in  
 CC linking a bioactive molecule to a cell expressing a PRO polypeptide, and  
 CC in modulating at least one biological activity of a cell expressing a PRO  
 CC polypeptide. PRO112 stimulates hypertrophy of neonatal heart and is thus  
 CC useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186  
 CC stimulate adrenal cortical capillary endothelial growth, and PRO536,  
 CC PRO943, PRO828, PRO826, PRO1068 or PRO535, PRO826, PRO819, PRO1126,  
 CC PRO1360 and PRO1375 induce c-fos in endothelial cells, and are thus  
 CC useful for treating conditions or disorders where angiogenesis would be  
 CC beneficial, e.g. wound healing and antagonists of this polypeptide are  
 CC useful for treating cancerous tumours. PRO812 inhibits vascular  
 CC endothelial growth factor (VEGF) stimulated proliferation of endothelial  
 CC cells and is thus useful for inhibiting endothelial cell growth in  
 CC mammals which would be beneficial in inhibiting tumour growth. PRO826,  
 CC PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of

CC stimulated T-lymphocytes and are therapeutically useful for enhancing  
 CC immune response. PRO828, PRO826, PRO1068 or PRO112 enhance survival of  
 CC retinal neurons cells (PRO112 is also enhances survival/proliferation of  
 CC rod photoreceptor cells) and therefore are useful for treating retinal  
 CC disorders of injuries, e.g. retinitis pigmentosa, AMD. PRO819, PRO813  
 CC and PRO1066 induce proliferation of mammalian kidney mesangial cells,  
 CC and therefore are useful for treating kidney disorders associated with  
 CC decreased mesangial cell function such as Berger disease or other  
 CC nephropathies associated with dermatitis, herpeticiformis or Crohn's  
 CC disease. PRO1310, PRO844, PRO1312, PRO1192 and PRO1387 induce the  
 CC proliferation and/or redifferentiation of chondrocytes in culture and are  
 CC thus useful for treating sports injuries and arthritis. This is the  
 CC amino acid sequence of a novel human PRO protein  
 XX  
 SQ Sequence 504 AA;  
 Query Match 99.4%; Score 1707; DB 6; Length 504;  
 Best Local Similarity 99.7%; Pred. No. 1.5e-117;  
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 DB 121 SPGKESLGPDSGGQEDPASQOMARPRFTQPSKKRRVVIARPVGSSVRLCCVAGSHRP 180  
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 DB 181 DITWKKDQALTRPAAAPRKKKWTLSKNIAPEDSGKYTCRVSNRAINATYVVDVYIQ 240  
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 DB 241 RTRSKPVLGTGHPVNTVDFGTTSPQCKVRSADVKEVPIQWLKRYEYGAEGHNSITIDVG 300  
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 ID ABU82584 standard; protein; 504 AA.  
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 AC ABU82584;  
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 DT 26-JUN-2003 (first entry)  
 XX  
 DE Human secreted/transmembrane protein PRO943.  
 XX  
 KW Human; PRO; secreted protein; transmembrane protein; wound healing;  
 KW cardiac insufficiency disorders; angiogenesis; wound healing;  
 KW cancerous tumour; immune response; retinal disorder; sight loss;  
 KW retinitis pigmentosum; age-related macular degeneration; AMD;  
 KW kidney disorder; Berger disease; nephropathy; dermatitis; herpeticiformis;  
 KW Crohn's disease; sports injury; arthritis.  
 XX  
 OS Homo sapiens.  
 XX  
 FX US2003032023-A1.  
 FX  
 PD 13-FEB-2003.  
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 PF 14-NOV-2001; 2001US-00990711.  
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 PR 16-JUN-1997; 97US-0049787P.  
 PR 17-OCT-1997; 97US-0062250P.  
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PR 12-NOV-1997; 97US-0065186P.  
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PR 24-NOV-1997; 97US-0066770P.  
PR 25-FEB-1998; 98US-0075945P.  
PR 20-MAR-1998; 98US-0078910P.  
PR 28-APR-1998; 98US-0083322P.  
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PR 05-JAN-1999; 99US-0123957P.  
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PR 17-AUG-1999; 99US-0149396P.

PR 15-SEP-1999; 99WO-US021090.  
PR 15-SEP-1999; 99WO-US021547.  
PR 08-OCT-1999; 99US-0158663P.  
PR 30-NOV-1999; 99WO-US028313.  
PR 01-DEC-1999; 99WO-US028301.  
PR 01-DEC-1999; 99WO-US028634.  
PR 16-DEC-1999; 99WO-US030095.  
PR 20-DEC-1999; 99WO-US030911.  
PR 05-JAN-2000; 2000WO-US000219.  
PR 06-JAN-2000; 2000WO-US000376.  
PR 11-FEB-2000; 2000WO-US003565.  
PR 18-FEB-2000; 2000WO-US004341.  
PR 22-FEB-2000; 2000WO-US004414.  
PR 24-FEB-2000; 2000WO-US004914.  
PR 24-FEB-2000; 2000WO-US005004.  
PR 02-MAR-2000; 2000WO-US005841.  
PR 10-MAR-2000; 2000WO-US006319.  
PR 15-MAR-2000; 2000WO-US006884.  
PR 20-MAR-2000; 2000WO-US007377.  
PR 30-MAR-2000; 2000WO-US008439.  
PR 15-MAY-2000; 2000WO-US013358.  
PR 17-MAY-2000; 2000WO-US013705.  
PR 22-MAY-2000; 2000WO-US014042.  
PR 30-MAY-2000; 2000WO-US014941.  
PR 02-JUN-2000; 2000WO-US015264.  
PR 23-JUN-2000; 2000US-0213637P.  
PR 28-JUL-2000; 2000WO-US020710.  
PR 11-AUG-2000; 2000WO-US022031.

Query Match 99.4%; Score 1707; DB 6; Length 504;  
Best Local Similarity 99.7%; Pred. No. 1,5e-117;

Matches 333; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 301 QKFVVLPTGDVWSRPDGSYLNKL 324  
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RESULT 14

ABU60503

ID ABU60503 standard; protein; 504 AA.

AC ABU60503;

XX 01-MAY-2003 (first entry)

DE Human secreted/transmembrane protein, #44.

KW Human; PRO; secreted; transmembrane; signal peptide; pharmaceutical;

KW diagnostic; therapeutic; gene therapy.

OS Homo sapiens.

XX

PN US2002160384-A1.

XX 31-OCT-2002.

PF 14-NOV-2001; 2001US-00992598.

XX 16-JUN-1997; 97US-0049787P.  
PR 17-OCT-1997; 97US-0062250P.  
PR 05-NOV-1997; 97WO-US02066P.  
PR 12-NOV-1997; 97US-0065186P.  
PR 13-NOV-1997; 97US-0065311P.  
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PR 25-FEB-1998; 98US-0075945P.  
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PR 28-APR-1998; 98US-0083222P.  
PR 07-MAY-1998; 98US-0084600P.  
PR 28-MAY-1998; 98US-0087105P.  
PR 02-JUN-1998; 98US-0087607P.  
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PR 18-JUN-1998; 98US-0089908P.  
PR 16-SEP-1998; 98WO-US019330.  
PR 17-SEP-1998; 98WO-US019437.  
PR 07-OCT-1998; 98WO-US021141.  
PR 01-DEC-1998; 98WO-US025108.  
PR 05-JAN-1999; 99WO-US000106.  
PR 08-MAR-1999; 99WO-US005028.  
PR 02-JUN-1999; 99WO-US012252.  
PR 15-SEP-1999; 99WO-US021090.  
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PR 30-NOV-1999; 99WO-US028313.  
PR 01-DEC-1999; 99WO-US028634.  
PR 16-DEC-1999; 99WO-US030095.  
PR 20-DEC-1999; 99WO-US030911.  
PR 05-JAN-2000; 2000WO-US000219.  
PR 06-JAN-2000; 2000WO-US000376.  
PR 11-FEB-2000; 2000WO-US003565.



PR 10-JUN-1998; 98US-0088824P.  
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 PR 11-JUN-1998; 98US-0088858P.  
 PR 11-JUN-1998; 98US-0088861P.  
 PR 11-JUN-1998; 98US-0088876P.  
 PR 12-JUN-1998; 98US-0089105P.  
 PR 16-JUN-1998; 98US-0089440P.  
 PR 16-JUN-1998; 98US-0089512P.  
 PR 16-JUN-1998; 98US-0089514P.  
 PR 17-JUN-1998; 98US-0089532P.  
 PR 17-JUN-1998; 98US-0089538P.  
 PR 17-JUN-1998; 98US-0089598P.  
 PR 17-JUN-1998; 98US-0089599P.  
 PR 17-JUN-1998; 98US-0089600P.  
 PR 17-JUN-1998; 98US-0089653P.  
 PR 18-JUN-1998; 98US-0089801P.  
 PR 18-JUN-1998; 98US-0089807P.  
 PR 18-JUN-1998; 98US-0089908P.  
 PR 16-SEP-1998; 98WO-US019330.  
 PR 17-SEP-1998; 98WO-US019437.  
 PR 07-OCT-1998; 98WO-US021147.  
 PR 01-DEC-1998; 98WO-US025108.  
 PR 05-JAN-1999; 99WO-US000106.  
 PR 08-MAR-1999; 99WO-US005028.  
 PR 02-JUN-1999; 99WO-US012252.  
 PR 15-SEP-1999; 99WO-US021090.  
 PR 15-SEP-1999; 99WO-US021547.  
 PR 30-NOV-1999; 99WO-US028313.  
 PR 01-DEC-1999; 99WO-US028301.  
 PR 01-DEC-1999; 99WO-US028634.  
 PR 16-DEC-1999; 99WO-US030095.  
 PR 20-DEC-1999; 99WO-US030911.  
 PR 06-JAN-2000; 2000WO-US000219.  
 PR 06-JAN-2000; 2000WO-US000376.  
 PR 11-FEB-2000; 2000WO-US003565.  
 PR 18-FEB-2000; 2000WO-US004341.  
 PR 22-FEB-2000; 2000WO-US004414.  
 PR 24-FEB-2000; 2000WO-US004914.  
 PR 24-FEB-2000; 2000WO-US005004.  
 PR 02-MAR-2000; 2000WO-US005841.  
 PR 10-MAR-2000; 2000WO-US006319.  
 PR 15-MAR-2000; 2000WO-US006884.  
 PR 20-MAR-2000; 2000WO-US007377.  
 PR 30-MAR-2000; 2000WO-US008439.  
 PR 15-MAY-2000; 2000WO-US013358.  
 PR 17-MAY-2000; 2000WO-US013705.  
 PR 22-MAY-2000; 2000WO-US014942.  
 PR 30-MAY-2000; 2000WO-US014944.  
 PR 02-JUN-2000; 2000WO-US015264.  
 PR 28-JUL-2000; 2000WO-US020710.  
 PR 11-AUG-2000; 2000WO-US022031.  
 PR 23-AUG-2000; 2000WO-US023328.  
 PR 24-AUG-2000; 2000WO-US023328.  
 PR 08-NOV-2000; 2000WO-US030952.  
 PR 01-DEC-2000; 2000WO-US032678.  
 PR 28-FEB-2001; 2001WO-US006520.  
 PR 01-JUN-2001; 2001WO-US017800.  
 PR 20-JUN-2001; 2001WO-US019692.  
 PR 29-JUN-2001; 2001WO-US021066.  
 PR 09-JUL-2001; 2001WO-US021735.  
 PR 28-AUG-2001; 2001US-00941992.  
 XX  
 PA (GENTH ) GENENTECH LTD.  
 XX  
 PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Baton DL;  
 PI Ferrara N, Fong S, Geber H, Gerritsen ME, Goddard A, Godowski PJ;  
 PI Grimaldi JC, Gurney AL, Kijavini IJ, Napier MA, Pan J, Paoni NF;  
 PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;  
 PI Zhang Z;  
 XX  
 DR MPI: 2003-102117/09.  
 DR N-PSDB; ABX64021.  
 XX

PT Novel secreted and transmembrane polypeptide for modulating biological  
 PT activity of cell expressing the polypeptide, identifying agonists or  
 PR antagonists of polypeptide, and as molecular weight markers.  
 XX  
 PS Claim 12; Fig 70; 649pp; English.  
 XX  
 CC The present invention relates to the isolation of novel human PRO  
 CC polypeptides, and the polynucleotide sequences encoding them. The PRO  
 CC polypeptides are secreted and transmembrane proteins. The PRO  
 CC polypeptides are useful for detecting other PRO polypeptides, for linking  
 CC polypeptides to cells expressing PRO polypeptides, for modulating  
 CC bioactive molecules to cells expressing PRO polypeptides, for linking  
 CC biological activities of cells expressing PRO polypeptides, and for for  
 CC identifying agonists or antagonists. The polynucleotide sequences  
 CC encoding PRO polypeptides are useful as hybridisation probes, in  
 CC chromosome and gene mapping, in the generation of antisense RNA and DNA,  
 CC in the preparation of PRO polypeptides, for generating transgenic animals  
 CC or knockout animals, to construct hybridisation probes for mapping the  
 CC gene which encodes the PRO polypeptide, and for the genetic analysis of  
 CC individuals with genetic disorders, in gene therapy, for chromosome  
 CC identification, as chromosome markers, and for generating probes for PCR,  
 CC Northern analysis, Southern analysis and Western analysis. ABU13860-  
 CC ABU14006 represent the human PRO polypeptides of the invention. Note: The  
 CC sequence data for this patent was obtained in electronic format directly  
 CC from the USPTO web site at [seqdata.uspto.gov/paipedidbentry.html](http://seqdata.uspto.gov/paipedidbentry.html)  
 XX  
 SQ Sequence 504 AA;  
 XX  
 Query Match 99.4%; Score 1707; DB 6; Length 504;  
 Best Local Similarity 99.7%; Pred. No. 1.5e-117;  
 Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 1 MTPSPDLLLLPPLLGAFPAAARGPKNADKVPQVARLGTVALQCPVEGDPPL 60  
 Db 1 MTPSPDLLLLPPLLGAFPAAARGPKNADKVPQVARLGTVALQCPVEGDPPL 60  
 QY 61 TMTDGTTHSGWRFVLPQGLKVKYVEREDAGVYCYKXTNGGSLSVYTVLVLDI 120  
 Db 61 TMTDGTTHSGWRFVLPQGLKVKYVEREDAGVYCYKXTNGGSLSVYTVLVLDI 120  
 QY 121 SPKESLGPDSGGQEDPASQOMARPFOTPSKRRRVIRPVGSSVRLKCVASGHRP 180  
 Db 121 SPKESLGPDSGGQEDPASQOMARPFOTPSKRRRVIRPVGSSVRLKCVASGHRP 180  
 QY 181 DITWKKDQALTRPEAARPRKKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240  
 Db 181 DITWKKDQALTRPEAARPRKKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240  
 QY 241 RTRSKPVLTGTHPVNTTDFEGTTSFOCKVASDVKPVYQMLKRYEGAGEHNSITIDVG 300  
 Db 241 RTRSKPVLTGTHPVNTTDFEGTTSFOCKVASDVKPVYQMLKRYEGAGEHNSITIDVG 300  
 QY 301 QKFVVLPTGDVMSRPDSYLNKPL 324  
 Db 301 QKFVVLPTGDVMSRPDSYLNKPL 324

Search completed: February 2, 2005, 18:22:43  
 Job time : 163 secs



GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: February 2, 2005, 18:19:11 ; Search time 24 Seconds  
(without alignments)  
895.293 Million cell updates/sec

Title: US-10-613-413B-8

Perfect score: 1717  
Sequence: 1 MTPSPULLLLPPLLGAAP.....VLPTGDVWSRPDGSYLNKPL 324

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 478139

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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2: /cgn2\_6/prodata/1/iaa/5B\_COMB.pep:\*  
3: /cgn2\_6/prodata/1/iaa/6A\_COMB.pep:\*  
4: /cgn2\_6/prodata/1/iaa/6B\_COMB.pep:\*  
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6: /cgn2\_6/prodata/1/iaa/backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1560	90.9	373	US-09-823-038A-60	Sequence 60, Appl
2	1560	90.9	529	US-09-383-586-31	Sequence 31, Appl
3	1560	90.9	529	US-09-823-038A-31	Sequence 31, Appl
4	1458	84.9	322	US-09-383-586-33	Sequence 33, Appl
5	1458	84.9	322	US-09-823-038A-33	Sequence 33, Appl
6	1035.5	60.3	439	US-09-383-586-32	Sequence 32, Appl
7	1035.5	60.3	439	US-09-823-038A-32	Sequence 32, Appl
8	408.5	23.8	801	US-09-383-630-6	Sequence 6, Appl
9	393	22.9	806	US-09-383-630-5	Sequence 3, Appl
10	382.5	22.3	802	US-09-173-151A-33	Sequence 33, Appl
11	380	22.1	816	US-07-640-029-1	Sequence 1, Appl
12	379.5	22.1	355	US-08-471-570-14	Sequence 14, Appl
13	379.5	22.1	643	US-08-471-570-6	Sequence 6, Appl
14	379.5	22.1	769	US-08-471-570-8	Sequence 8, Appl
15	375.5	21.9	821	US-08-451-842A-13	Sequence 13, Appl
16	375.5	21.9	821	US-08-323-430-13	Sequence 13, Appl
17	371.5	21.6	622	US-09-499-846-2	Sequence 2, Appl
18	371.5	21.6	820	US-07-921-807B-3	Sequence 3, Appl
19	371.5	21.6	820	US-08-441-944A-3	Sequence 3, Appl
20	371.5	21.6	820	US-08-439-992A-1	Sequence 1, Appl
21	368.5	21.5	351	PCT-US93-05703-2	Sequence 2, Appl
22	367.5	21.4	817	US-07-640-029-2	Sequence 2, Appl
23	367.5	21.4	822	US-07-921-807B-4	Sequence 4, Appl
24	367.5	21.4	822	US-08-459-296-2	Sequence 2, Appl
25	367.5	21.4	822	US-08-441-944A-4	Sequence 4, Appl
26	367.5	21.4	822	US-08-451-842A-12	Sequence 12, Appl
27	367.5	21.4	822	US-08-439-992A-2	Sequence 2, Appl

28	367.5	21.4	822	US-08-323-430-12	Sequence 12, Appl
29	366.5	21.3	820	US-07-997-133-1	Sequence 1, Appl
30	357.5	20.8	820	US-08-166-717D-6	Sequence 6, Appl
31	350	20.4	126	US-09-383-586-30	Sequence 30, Appl
32	350	20.4	126	US-09-823-038A-30	Sequence 30, Appl
33	308	17.9	300	US-07-640-029-5	Sequence 5, Appl
34	308	17.9	300	US-08-439-992A-5	Sequence 5, Appl
35	308	17.9	525	US-09-499-846-4	Sequence 4, Appl
36	308	17.9	525	US-09-499-846-8	Sequence 8, Appl
37	307	17.9	526	US-08-471-570-4	Sequence 4, Appl
38	307	17.9	652	US-08-471-570-10	Sequence 10, Appl
39	306	17.8	302	US-07-921-807B-7	Sequence 7, Appl
40	306	17.8	302	US-08-441-944A-7	Sequence 7, Appl
41	305	17.8	240	US-08-471-570-12	Sequence 12, Appl
42	304	17.7	302	US-07-640-029-6	Sequence 6, Appl
43	304	17.7	302	US-07-921-807B-8	Sequence 8, Appl
44	304	17.7	302	US-08-441-944A-8	Sequence 8, Appl
45	304	17.7	302	US-08-439-992A-6	Sequence 6, Appl

ALIGNMENTS

RESULT 1					
US-09-823-038A-60					
Sequence 60, Application US/09823038A					
Patent No. 6797271					
GENERAL INFORMATION:					
APPLICANT: Strachan, Lorna					
APPLICANT: Sleeman, Matthew					
APPLICANT: Abernethy, Nevlin					
APPLICANT: Onrust, Rene					
APPLICANT: Kumble, Anand					
APPLICANT: Murlison, Greg					
TITLE OF INVENTION: Compositions Isolated From Stromal Cells					
FILE REFERENCE: 11000.1037c3					
CURRENT APPLICATION NUMBER: US/09/823,038A					
CURRENT FILING DATE: 2001-07-09					
NUMBER OF SEQ ID NOS: 61					
SOFTWARE: FastSeq for Windows Version 4.0					
SEQ ID NO 60					
LENGTH: 373					
TYPE: PRT					
ORGANISM: Mouse					
US-09-823-038A-60					
Query Match					
Best Local Similarity 91.4%; Score 1560; DB 4; Length 373;					
Matches 296; Conservative 9; Mismatches 15; Indels 4; Gaps 1;					
Qy	1	MTPSPULLLLPPLLGAAPPAARPPPMADKVPVQVARGRYRLCCPVBGDPPL	60		
Db	1	MTPSPALLL-----LLGLAFSAEAARGPPPMADKVPVQVARGRYRLCCPVBGDPPL	56		
Qy	61	TMWTKGRTTHSGMSRRVLPGLKXKQVEREDAGVYVCATNGFGLSYNTLVVDDI	120		
Db	57	TMWTKGRTTHSGMSRRVLPGLKXKQVEREDAGVYVCATNGFGLSYNTLVVDDI	116		
Qy	121	SPGKESLGPSSSGGQEDPASQOMARRPTQPSKMRRIARVPGSSVRLKCVASGHRP	180		
Db	117	SPGKESLGPSSSGGQEDPASQOMARRPTQPSKMRRIARVPGSSVRLKCVASGHRP	176		
Qy	181	DTWMDKQDALTRPEAAEPKPKKWTLSLKNLRPEBDSKTYTCRVSNRGA1NATYKDVQ	240		
Db	177	DTWMDKQDQLTLLEASERHKKKWTLSLKNLRPEBDSKTYTCRVSNRGA1NATYKDVQ	236		
Qy	241	RTSKSPVLTTHVNTVVDGCTTSFOCKVRSVQVPIQWLKRYEGABGRHNSITDVGG	300		
Db	237	RTSKSPVLTTHVNTVVDGCTTSFOCKVRSVQVPIQWLKRYEGABGRHNSITDVGG	296		
Qy	301	QKPVLPFGDWSRPDGSYLNKPL 324			
Db					

Db 297 QKFFVLPDGVWSRPDGSYLKLL 320

# RESULT 2

US-09-383-586-31

/ Sequence 31, Application US/09383586

/ Patent No. 6242419

/ GENERAL INFORMATION:

/ APPLICANT: Strachan, Lorna

/ APPLICANT: Sleeman, Matthew

/ APPLICANT: Abernethy, Nevin

/ APPLICANT: Onrust, Rene

/ APPLICANT: Kumble, Anand

/ APPLICANT: Murison, Greg

/ TITLE OF INVENTION: Compounds isolated from stromal cells

/ FILE REFERENCE: 11000.1037c1

/ CURRENT FILING DATE: 1999-08-26

/ NUMBER OF SEQ ID NOS: 38

/ SOFTWARE: FastSeq for Windows Version 3.0

/ SEQ ID NO 31

/ LENGTH: 529

/ TYPE: PRT

/ ORGANISM: Mouse

/ US-09-383-586-31

Query Match 90.9%; Score 1560; DB 3; Length 529;  
Best Local Similarity 91.4%; Pred. No. 1.4e-134;  
Matches 296; Conservative 9; Mismatches 15; Indels 4; Gaps 1;

QY 1 MTPSPDLLLPLLPGLGAPPPAAARGPPEKADKVPVQVARGTRVRLQCFVEGDPPL 60  
DB 1 MTRSPALLL-----LILGALPSAARGPBRMADKVPVQVARGTRVRLQCFVEGDPPL 56

QY 61 TMTKDGRTIHSGWRFVLPQGLKVKOVEREDAGVYVCATNGFGLSVNTTLVLDI 120  
DB 57 TMTKDGRTIHSGWRFVLPQGLKVKVEADAGVYVCATNGFGLSVNTTLIMDI 116

QY 121 SPKESLPGDSSGGQEDPASQOMARPRFTOPSKMRRIARPVGSSVRLKCVASGHRP 180  
DB 117 SPKESPGGSSGGQEDPASQOMARPRFTOPSKMRRIARPVGSSVRLKCVASGHRP 176

QY 181 DITMKDQALTRPEAABPRKKKWTLSLKNLRPEDSGKYTCVSNRAGAINATYKVDVIQ 240  
DB 177 DIMMKDDQTLTHLASBHRKKKWTLSLKNLRPEDSGKYTCVSNRAGAINATYKVDVIQ 236

QY 241 RTRSKPVLTGTHPVNTTVDGTTSFQCKVRSVDPVIOMLKRVYGAEGHNSITIDVG 300  
DB 237 RTRSKPVLTGTHPVNTTVDGTTSFQCKVRSVDPVIOMLKRVYGAEGHNSITIDVG 296

QY 301 QKFFVLPDGVWSRPDGSYLKPL 324  
DB 297 QKFFVLPDGVWSRPDGSYLKLL 320

# RESULT 3

US-09-823-038A-31

/ Sequence 31, Application US/09823038A

/ Patent No. 6797271

/ GENERAL INFORMATION:

/ APPLICANT: Strachan, Lorna

/ APPLICANT: Sleeman, Matthew

/ APPLICANT: Abernethy, Nevin

/ APPLICANT: Onrust, Rene

/ APPLICANT: Kumble, Anand

/ APPLICANT: Murison, Greg

/ TITLE OF INVENTION: Compounds isolated from Stromal Cells

/ FILE REFERENCE: 11000.1037c3

/ CURRENT FILING DATE: 2001-07-09

/ NUMBER OF SEQ ID NOS: 61

/ SOFTWARE: FastSeq for Windows Version 4.0

/ SEQ ID NO 31

/ LENGTH: 529

/ TYPE: PRT

/ ORGANISM: Mouse

/ US-09-823-038A-31

Query Match 90.9%; Score 1560; DB 4; Length 529;  
Best Local Similarity 91.4%; Pred. No. 1.4e-134;  
Matches 296; Conservative 9; Mismatches 15; Indels 4; Gaps 1;

QY 1 MTPSPDLLLPLLPGLGAPPPAAARGPPEKADKVPVQVARGTRVRLQCFVEGDPPL 60  
DB 1 MTRSPALLL-----LILGALPSAARGPBRMADKVPVQVARGTRVRLQCFVEGDPPL 56

QY 61 TMTKDGRTIHSGWRFVLPQGLKVKOVEREDAGVYVCATNGFGLSVNTTLVLDI 120  
DB 57 TMTKDGRTIHSGWRFVLPQGLKVKVEADAGVYVCATNGFGLSVNTTLIMDI 116

QY 121 SPKESLPGDSSGGQEDPASQOMARPRFTOPSKMRRIARPVGSSVRLKCVASGHRP 180  
DB 117 SPKESPGGSSGGQEDPASQOMARPRFTOPSKMRRIARPVGSSVRLKCVASGHRP 176

QY 181 DITMKDQALTRPEAABPRKKKWTLSLKNLRPEDSGKYTCVSNRAGAINATYKVDVIQ 240  
DB 177 DIMMKDDQTLTHLASBHRKKKWTLSLKNLRPEDSGKYTCVSNRAGAINATYKVDVIQ 236

QY 241 RTRSKPVLTGTHPVNTTVDGTTSFQCKVRSVDPVIOMLKRVYGAEGHNSITIDVG 300  
DB 237 RTRSKPVLTGTHPVNTTVDGTTSFQCKVRSVDPVIOMLKRVYGAEGHNSITIDVG 296

QY 301 QKFFVLPDGVWSRPDGSYLKPL 324  
DB 297 QKFFVLPDGVWSRPDGSYLKLL 320

# RESULT 4

US-09-383-586-33

/ Sequence 33, Application US/09383586

/ Patent No. 6242419

/ GENERAL INFORMATION:

/ APPLICANT: Strachan, Lorna

/ APPLICANT: Sleeman, Matthew

/ APPLICANT: Abernethy, Nevin

/ APPLICANT: Onrust, Rene

/ APPLICANT: Kumble, Anand

/ APPLICANT: Murison, Greg

/ TITLE OF INVENTION: Compounds isolated from stromal cells

/ FILE REFERENCE: 11000.1037c1

/ CURRENT FILING DATE: 1999-08-26

/ NUMBER OF SEQ ID NOS: 38

/ SOFTWARE: FastSeq for Windows Version 3.0

/ SEQ ID NO 33

/ LENGTH: 322

/ TYPE: PRT

/ ORGANISM: Human

/ US-09-383-586-33

Query Match 84.9%; Score 1458; DB 3; Length 322;  
Best Local Similarity 100.0%; Pred. No. 1.5e-125;  
Matches 273; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 52 PYEGDPPPLTMTKDGRTIHSGWRFVLPQGLKVKOVEREDAGVYVCATNGFGLSVN 111  
DB 50 PYEGDPPPLTMTKDGRTIHSGWRFVLPQGLKVKOVEREDAGVYVCATNGFGLSVN 109

QY 112 YTLVLDIISPKESLPGDSSGGQEDPASQOMARPRFTOPSKMRRIARPVGSSVRLK 171  
DB 110 YTLVLDIISPKESLPGDSSGGQEDPASQOMARPRFTOPSKMRRIARPVGSSVRLK 169

QY 172 CVASGHRPDIITMKDQALTRPEAABPRKKKWTLSLKNLRPEDSGKYTCVSNRAGAIN 231

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Db      170 CVASGHRPDIWMKDDQALTRPEAAEPKKKWTLSLKNLRPEDSGKYTCRVSNRAGAIN 229
Qy      232 ATYKXDVIRTSKSPVLTGTHPVNTTVDDGGTTSFOCKVRSVDKPIQMLKREYGAEGR 291
Db      230 ATYKXDVIRTSKSPVLTGTHPVNTTVDDGGTTSFOCKVRSVDKPIQMLKREYGAEGR 289
Qy      292 HNSTIDVGQKFFVLPFGDVMSPRDPGSYLNKPL 324
Db      290 HNSTIDVGQKFFVLPFGDVMSPRDPGSYLNKPL 322

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## RESULT 5

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US-09-823-038A-33
; Sequence 33, Application US/09823038A
; Patent No. 6797271
; GENERAL INFORMATION:
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Abernethy, Nevlin
; APPLICANT: Onrust, Rene
; APPLICANT: Kumble, Anand
; APPLICANT: Murison, Greg
; TITLE OF INVENTION: Compositions Isolated From Stromal Cells
; FILE REFERENCE: 11000.1037c3
; CURRENT FILING DATE: 2001-07-09
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 33
; LENGTH: 322
; TYPE: PRT
; ORGANISM: Human
US-09-823-038A-33

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Query Match      84.9%; Score 1458; DB 4; Length 322;
Best Local Similarity 100.0%; Pred. No. 1.5e-125;
Matches 273; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      52 PVEGDPPPLTMMTGDGRTTHSGWRFVLPQGLKVQVERPDAGVYVCKATNGFSLSVN 111
Db      50 PVEGDPPPLTMMTGDGRTTHSGWRFVLPQGLKVQVERPDAGVYVCKATNGFSLSVN 109
Qy      112 YTLVVLDDISFGKESLGPDSGSGQEDPASQOMARPRFTOPSKKRRRVIAAPVGSVRLX 171
Db      110 YTLVVLDDISFGKESLGPDSGSGQEDPASQOMARPRFTOPSKKRRRVIAAPVGSVRLX 169
Qy      172 CVASGHRPDIWMKDDQALTRPEAAEPKKKWTLSLKNLRPEDSGKYTCRVSNRAGAIN 231
Db      170 CVASGHRPDIWMKDDQALTRPEAAEPKKKWTLSLKNLRPEDSGKYTCRVSNRAGAIN 229
Qy      232 ATYKXDVIRTSKSPVLTGTHPVNTTVDDGGTTSFOCKVRSVDKPIQMLKREYGAEGR 291
Db      230 ATYKXDVIRTSKSPVLTGTHPVNTTVDDGGTTSFOCKVRSVDKPIQMLKREYGAEGR 289
Qy      292 HNSTIDVGQKFFVLPFGDVMSPRDPGSYLNKPL 324
Db      290 HNSTIDVGQKFFVLPFGDVMSPRDPGSYLNKPL 322

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## RESULT 6

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US-09-383-586-32
; Sequence 32, Application US/09383586
; Patent No. 6242419
; GENERAL INFORMATION:
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Abernethy, Nevlin
; APPLICANT: Onrust, Rene
; APPLICANT: Kumble, Anand
; APPLICANT: Murison, Greg
; TITLE OF INVENTION: Compounds isolated from stromal cells

```

```

; TITLE OF INVENTION: and methods for their use
; FILE REFERENCE: 11000.1037c1
; CURRENT APPLICATION NUMBER: US/09/383,586
; CURRENT FILING DATE: 1999-08-26
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 32
; LENGTH: 439
; TYPE: PRT
; ORGANISM: Mouse
US-09-383-586-32

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Query Match      60.3%; Score 1035.5; DB 3; Length 439;
Best Local Similarity 65.1%; Pred. No. 1.3e-86;
Matches 211; Conservative 4; Mismatches 14; Indels 95; Gaps 2;

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Qy      1 MTPSPPLLLPPLLLGAPPPAAAAGPPKMDKVPVROVARLGRVRLQCPVEGDPPL 60
Db      1 MTRSPALLL-----LLLGALPSAEMAR----- 22
Qy      61 TMMTKDGRTHSGWRFVLPQGLKVQVERPDAGVYVCKATNGFSLSVNTLVVLDI 120
Db      23 -----DDI 25
Qy      121 SPKESLGPDSGSGQEDPASQOMARPRFTOPSKKRRRVIAAPVGSVRLXCVASGHRP 180
Db      26 SPKESPGGSGSGQEDPASQOMARPRFTOPSKKRRRVIAAPVGSVRLXCVASGHRP 85
Qy      181 DITMKDDQALTRPEAAEPKKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKXDVIT 240
Db      86 DIMMKDDQTLTLEASERHKKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKXDVIT 145
Qy      241 RTRSKPVLTGTHPVNTTVDDGGTTSFOCKVRSVDKPIQMLKREYGAEGRHNSTIDVG 300
Db      146 RTRSKPVLTGTHPVNTTVDDGGTTSFOCKVRSVDKPIQMLKREYGAEGRHNSTIDVG 205
Qy      301 QKFFVLPFGDVMSPRDPGSYLNKPL 324
Db      206 QKFFVLPFGDVMSPRDPGSYLNKPL 229

```

## RESULT 7

```

US-09-823-038A-32
; Sequence 32, Application US/09823038A
; Patent No. 6797271
; GENERAL INFORMATION:
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Abernethy, Nevlin
; APPLICANT: Onrust, Rene
; APPLICANT: Kumble, Anand
; APPLICANT: Murison, Greg
; TITLE OF INVENTION: Compositions Isolated From Stromal Cells
; FILE REFERENCE: 11000.1037c3
; CURRENT FILING DATE: 2001-07-09
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 32
; LENGTH: 439
; TYPE: PRT
; ORGANISM: Mouse
US-09-823-038A-32

```

```

Query Match      60.3%; Score 1035.5; DB 4; Length 439;
Best Local Similarity 65.1%; Pred. No. 1.3e-86;
Matches 211; Conservative 4; Mismatches 14; Indels 95; Gaps 2;

```

```

Qy      1 MTPSPPLLLPPLLLGAPPPAAAAGPPKMDKVPVROVARLGRVRLQCPVEGDPPL 60
Db      1 MTRSPALLL-----LLLGALPSAEMAR----- 22

```

QY 61 TMTKDGRTIHSGWHSFRVLPOGLKVKQVEREDAGVYVCKATNGFSGLSVNTLVLDPI 120  
DB 23 -----DDI 25  
QY 121 SPKSGSLGPDSSGGCEDPASQOMARPRFTOPSKMRRIAPVPGSSVFLKCVASGHPRP 180  
DB 26 SPKSGSPGCGSSGGCEDPASQOMARPRFTOPSKMRRIAPVPGSSVFLKCVASGHPRP 85  
QY 181 DITWKKDQALTRPEAEPKRRKKMTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIO 240  
DB 86 DITWKKDQDQTLTHLESEHKKKKMTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIO 145  
QY 241 RTRSKRVLTGTHPVNTTVDFFGTTSPQCKVRSDVKEVIOMLKRVEXGAEGRNSTIDVGG 300  
DB 146 RTRSKRVLTGTHPVNTTVDFFGTTSPQCKVRSDVKEVIOMLKRVEXGAEGRNSTIDVGG 205  
QY 301 QKRVVLPTGVDVWSRPPDGSYLNKPL 324  
DB 206 QKRVVLPTGVDVWSRPPDGSYLNKPL 229

RESULT 8  
US-09-383-630-6  
Sequence 6, Application US/09383630A  
Patent No. 6265632  
GENERAL INFORMATION:  
APPLICANT: Avner Yaron et al.  
TITLE OF INVENTION: ANIMAL MODEL FOR FIBROBLAST GROWTH  
FACTOR RECEPTOR ASSOCIATED  
CHONDRODYSPLASIA  
NUMBER OF SEQUENCES: 18  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Mark M. Friedman c/o Anthony Castorina  
STREET: 2001 Jefferson Davis Highway, Suite 207  
CITY: Arlington  
STATE: Virginia  
COUNTRY: United States of America  
ZIP: 22202  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 1.44 megabyte, 3.5" microdisk  
COMPUTER: Twinhead\* Slimote-890TX  
OPERATING SYSTEM: MS DOS version 6.2,  
Windows version 3.11  
SOFTWARE: Word for Windows version 2.0 converted  
to an ASCII file  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/383,630A  
FILING DATE: 26-Aug-1999  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: <Unknown>  
FILING DATE: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Friedman, Mark M.  
REGISTRATION NUMBER: 33,883  
REFERENCE/DOCKET NUMBER: 1402/2  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 972-3-5625553  
TELEFAX: 972-3-5625554  
TELEX: <Unknown>  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 801  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
US-09-383-630-6

Query Match 23.8%; Score 408.5; DB 3; Length 801;  
Best Local Similarity 34.4%; Pred. No. 9.2e-29;  
Matches 106; Conservative 49; Mismatches 114; Indels 39; Gaps 11;

QY 22 AAAAGPPKMDKVVPR-----QVA-RLGRTVRLQC-PVEGDPEPLTMTKXD 66  
DB 16 AGATSEPPGPEGRVVRRAAEVPGPEPQQEQVAFEGSGDTVELSCHPPEGAPFGPTVMKXD 75  
QY 67 GRTIHSGWHSFRVLPOGLKVKQVEREDAGVYC-KATNGSGLSVNTLVLDISFGK 124  
DB 76 GTGLVAS-HRILVGPQRQVJNASHEDAGVYSCQHLRTR---RVLCFHSVRYVTAPSSGD 131  
QY 125 ESLGPDSSGGCEDPASQOMARPRFTOPSKMRRIAPVPGSSVFLKCVASGHPRPDITM 184  
DB 132 DEDGEDVA---EDTGAYTW-----TRERMDKLLIAPAAVTARFCPPAAGNPPTSISW 182  
QY 185 MKDDQALTRPEAEPKRRKKMTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIO 241  
DB 183 LKNGKEPGEHRIGIKLRHQQWSLVMSVPSDRGNVTCVVENKFGSIRQTYTLDLVLR 242  
QY 242 TRSKRVLTGTHPVNTTVDFFGTTSPQCKVRSDVKEVIOMLKRVEXGAEGRNSTIDVGG 301  
DB 243 SPHRPILAGLPAVOTAILGSDVDFHCKVSDAQPHIQLKRVEX-----NGSKVGPDT 297  
QY 302 KRV-VLPT 308  
DB 298 PVTVLKLT 305

RESULT 9  
US-09-383-630-3  
Sequence 3, Application US/09383630A  
Patent No. 6265632  
GENERAL INFORMATION:  
APPLICANT: Avner Yaron et al.  
TITLE OF INVENTION: ANIMAL MODEL FOR FIBROBLAST GROWTH  
FACTOR RECEPTOR ASSOCIATED  
CHONDRODYSPLASIA  
NUMBER OF SEQUENCES: 18  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Mark M. Friedman c/o Anthony Castorina  
STREET: 2001 Jefferson Davis Highway, Suite 207  
CITY: Arlington  
STATE: Virginia  
COUNTRY: United States of America  
ZIP: 22202  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 1.44 megabyte, 3.5" microdisk  
COMPUTER: Twinhead\* Slimote-890TX  
OPERATING SYSTEM: MS DOS version 6.2,  
Windows version 3.11  
SOFTWARE: Word for Windows version 2.0 converted  
to an ASCII file  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/383,630A  
FILING DATE: 26-Aug-1999  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: <Unknown>  
FILING DATE: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Friedman, Mark M.  
REGISTRATION NUMBER: 33,883  
REFERENCE/DOCKET NUMBER: 1402/2  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 972-3-5625553  
TELEFAX: 972-3-5625554  
TELEX: <Unknown>  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 806  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
US-09-383-630-3



REGISTRATION NUMBER: 33,113  
 REFERENCE/DOCKET NUMBER: CH-165  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 510-601-2708  
 TELEFAX: 510-655-3542  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 816 amino acids  
 TYPE: AMINO ACID  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 US-07-640-029-1

Query Match 22.1%; Score 380; DB 1; Length 816;  
 Best Local Similarity 30.0%; Pred. No. 3,9e-26;  
 Matches 89; Conservative 53; Mismatches 125; Indels 30; Gaps 8;

QY 3 PPSLLLLLPPLLGAFPPAAARCPKXADKVPQVARGRTVRLQCPVEGDPPLTM 62  
 DB PPSPTL-----PQAQPMGAPVEVESF---LVHGDLLQLRCRLADVDQIN- 65  
 QY 63 WKDGRTHSGMRPRVLPQGLKQVEREDAGVYVCKATNGFSGLSVNTYTLVLDISP 122  
 DB WLRDGVQLAES-NRRITGEVEVQDVPADGLYACVTSPPSGS-DTTFSVNVSALP 123  
 QY 123 GKESLGPDSGSGOE-----DPASQWAPRPTOPSKRRRVIAAPVGSVRLKCVASG 176  
 DB SSEDDEDDDDSSSEKKEKETNTKNPAPFWTSEKMEKLLHAVPAKTYKFCPPSG 183  
 QY 177 HRPDITWMKDDQALTRPE---AAEPKKKWTLSLKNLRPDSGKYTCRVSNRAAINA 232  
 DB 184 TNPFTLRMLKNKEF-KPDHRIGYKRVATWSIIMDSVPSDKGYTCIVENEGSINH 242  
 QY 223 TKKDVIOGTRKPVLTGHPVNTYVDEGCTTSFOCKRSDVKVPYIOWLKRYEAE 289  
 DB 243 TVQLDVERSPHRLIQAQLPANKTVALGSNVEFWCKVSDPQHIOWLKHTEWGSK 299

RESULT 12

US-08-471-570-14  
 Sequence 14, Application US/08471570

Patent No. 5750371  
 GENERAL INFORMATION:  
 APPLICANT: IGARASHI, Koichi  
 APPLICANT: SENOO, Masaharu  
 APPLICANT: MATANABE, Tatsuya  
 TITLE OF INVENTION: PROTEIN, DNA AND USE THEREOF  
 NUMBER OF SEQUENCES: 18  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: DAVID G. CONLIN; DIKE, BRONSTEIN, ROBERTS &  
 ADDRESSEE: CUSHMAN  
 STREET: 130 Water Street  
 CITY: Boston  
 STATE: Massachusetts  
 COUNTRY: US  
 ZIP: 02109  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 OPERATING SYSTEM: IBM PC compatible  
 SOFTWARE: Patentin Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/471,570  
 FILING DATE: 06-JUN-1995  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/08/149,664  
 FILING DATE:  
 APPLICATION NUMBER: US 07/743369  
 FILING DATE: 16-AUG-1991  
 ATTORNEY/AGENT INFORMATION:  
 NAME: LINEK, Ernest V

REGISTRATION NUMBER: 29822  
 REFERENCE/DOCKET NUMBER: 40897  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617)523-3400  
 TELEFAX: (617)523-6440  
 INFORMATION FOR SEQ ID NO: 14:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 355 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-471-570-14

Query Match 22.1%; Score 379.5; DB 1; Length 355;  
 Best Local Similarity 30.1%; Pred. No. 1,3e-26;  
 Matches 97; Conservative 59; Mismatches 129; Indels 37; Gaps 10;

QY 20 PPAARARCPKXADKVPQVARGRTVRLQCPVEGDPPLTMWKDGRTHSGMRPRV 79  
 DB PPTKYISOPEV-----YAAPGESLVRCLTK--DAAVISWTKDG--VHLGPNRTV 66  
 QY 80 L-PQGLKQVEREDAGVYVCKATNGFSGLSVNTYTLVLDISPKESSLGPDSSSGG 138  
 DB LIGELYLQIKGATPRDSGLYACTASRTVDETFYFWVNTDAISSGD---EDTDGAED 122  
 QY 139 PASQ---OWAPRPTOPSKRRRVIAAPVGSVRLKCVASGHPRPDITWMKDDQAL- 192  
 DB FVSESNKKRAPPYNTNTEKMEKLLHAVPAATVRCACAGNPMPTMMLKNKEFKBEH 182  
 QY 193 RPEAAPRRKKWTLSLKNLRPDSGKYTCRVSNRAINATYKDVIOGTRSKPVLTGTH 252  
 DB 183 RIGYKRVANQHMJSLIMESVPSDKGYTCIVENEGSINH7YHLDVERSHPRLIQAQL 242  
 QY 253 PNTTVDEGCTTSFOCKRSDVKVPYIOWLKRYE-----YGAEG-----RHNSITDVG 300  
 DB 243 PANAFTVGVGVCEYCKVSDAPQHIOWKHVENKXSKYGGDLPYLKVLHSG--INS 299  
 QY 301 QKFVLPFGDVWSRPDSGYLNK 322  
 DB 300 SNAEVLALFNTTEADAGEYICK 321

RESULT 13

US-08-471-570-6  
 Sequence 6, Application US/08471570

Patent No. 5750371  
 GENERAL INFORMATION:  
 APPLICANT: IGARASHI, Koichi  
 APPLICANT: SENOO, Masaharu  
 APPLICANT: MATANABE, Tatsuya  
 TITLE OF INVENTION: PROTEIN, DNA AND USE THEREOF  
 NUMBER OF SEQUENCES: 18  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: DAVID G. CONLIN; DIKE, BRONSTEIN, ROBERTS &  
 ADDRESSEE: CUSHMAN  
 STREET: 130 Water Street  
 CITY: Boston  
 STATE: Massachusetts  
 COUNTRY: US  
 ZIP: 02109  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 OPERATING SYSTEM: IBM PC compatible  
 SOFTWARE: Patentin Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/471,570  
 FILING DATE: 06-JUN-1995  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/08/149,664  
 FILING DATE:

APPLICATION NUMBER: US 07/743369  
FILING DATE: 16-AUG-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: LINEK, Ernest V  
REGISTRATION NUMBER: 29822  
REFERENCE/DOCKET NUMBER: 40897  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617)523-3400  
TELEFAX: (617)523-6440  
TELEX: 200291 STRE UR  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 643 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-471-570-6

Query Match 22.1%; Score 379.5; DB 1; Length 643;  
Best Local Similarity 30.1%; Pred. No. 3.1e-26;  
Matches 97; Conservative 59; Mismatches 129; Indels 37; Gaps 10;

QY 20 PPAARAGPPKADKVPVROVRLGRTVRLQCPVEGDPPLMTWTQDGRTHSGMSRFV 79  
DB 38 PPTKYOISOPEV-----YVAAPGESLEVRCLIK--DAAVISWTKDG--VHLGPNRRIV 86  
QY 80 L-POGLKVKQVEREDAGVYVCKATNGFGSLSVNYTLVLDLISPGKESLGPDSSGGQED 138  
DB 87 LIEVYLIQIKATPRDSGLVACTASRTYDSETWYFMVNVDAISSGD---EDDTGAE 142  
QY 139 PASQ--QWAPRPTOPSKRRRVIARPVGSSVRLKCVASGHPREDITTMKDDOALT--- 192  
DB 143 FVSENSNNKRAPYWTETKEKKEKRLHAPANTVFRCPAGGNPMTWRMLKNGKEFKOE 202  
QY 193 RPEAERPKKKWTLSLKNLRPEDSGKYTCVSNRAGAINATYKVDVIORTSRKPVLTGTH 252  
DB 203 RIGYKVRNQHWSLIMESVPSDKGNTCVENEYGSINHTYHLDVVERSPHPILOAGL 262  
QY 253 PUNTVDGFGTTSFOCKVRSVDKPEVIOMLKRV-----YGAEG-----RHNSTIDVG 300  
DB 263 PANASTVGGDVGEVCKVYSDAQPHIQIMIKHVEKNGSKYGPDDLPLYKVLKHSG---INS 319  
QY 301 QKEFVLPFGDWSRPPDGSYLK 322  
DB 320 SNAEVLALFVYTEADAGEYICK 341

RESULT 14  
US-08-471-570-8  
Sequence 8, Application US/08471570  
Patent No. 5750371  
GENERAL INFORMATION:  
APPLICANT: IGARASHI, Koichi  
APPLICANT: SENOO, Masaharu  
APPLICANT: WATANABE, Tatsuuya  
TITLE OF INVENTION: PROTEIN, DNA AND USE THEREOF  
NUMBER OF SEQUENCES: 18  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: DAVID G. CONLIN, DIKE, BRONSTEIN, ROBERTS &  
ADDRESS: CUSHMAN  
STREET: 130 Water Street  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: US  
ZIP: 02109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/471,570  
FILING DATE: 06-JUN-1995

CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/149,664  
FILING DATE:  
APPLICATION NUMBER: US 07/743369  
FILING DATE: 16-AUG-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: LINEK, Ernest V  
REGISTRATION NUMBER: 29822  
REFERENCE/DOCKET NUMBER: 40897  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617)523-3400  
TELEFAX: (617)523-6440  
TELEX: 200291 STRE UR  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 769 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-471-570-8

Query Match 22.1%; Score 379.5; DB 1; Length 769;  
Best Local Similarity 30.1%; Pred. No. 4e-26;  
Matches 97; Conservative 59; Mismatches 129; Indels 37; Gaps 10;

QY 20 PPAARAGPPKADKVPVROVRLGRTVRLQCPVEGDPPLMTWTQDGRTHSGMSRFV 79  
DB 38 PPTKYOISOPEV-----YVAAPGESLEVRCLIK--DAAVISWTKDG--VHLGPNRRIV 86  
QY 80 L-POGLKVKQVEREDAGVYVCKATNGFGSLSVNYTLVLDLISPGKESLGPDSSGGQED 138  
DB 87 LIEVYLIQIKATPRDSGLVACTASRTYDSETWYFMVNVDAISSGD---EDDTGAE 142  
QY 139 PASQ--QWAPRPTOPSKRRRVIARPVGSSVRLKCVASGHPREDITTMKDDOALT--- 192  
DB 143 FVSENSNNKRAPYWTETKEKKEKRLHAPANTVFRCPAGGNPMTWRMLKNGKEFKOE 202  
QY 193 RPEAERPKKKWTLSLKNLRPEDSGKYTCVSNRAGAINATYKVDVIORTSRKPVLTGTH 252  
DB 203 RIGYKVRNQHWSLIMESVPSDKGNTCVENEYGSINHTYHLDVVERSPHPILOAGL 262  
QY 253 PUNTVDGFGTTSFOCKVRSVDKPEVIOMLKRV-----YGAEG-----RHNSTIDVG 300  
DB 263 PANASTVGGDVGEVCKVYSDAQPHIQIMIKHVEKNGSKYGPDDLPLYKVLKHSG---INS 319  
QY 301 QKEFVLPFGDWSRPPDGSYLK 322  
DB 320 SNAEVLALFVYTEADAGEYICK 341

RESULT 15  
US-08-451-822A-13  
Sequence 13, Application US/08451822A  
Patent No. 5863888  
GENERAL INFORMATION:  
APPLICANT: Dionne, Craig A  
APPLICANT: Crumley, Greg  
APPLICANT: Jaye, Michael C  
APPLICANT: Schlesinger, Joseph  
TITLE OF INVENTION: Fibroblast Growth Factor Receptors  
NUMBER OF SEQUENCES: 19  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Rhone-Poulenc Rorer Legal Department  
STREET: 500 Arcola Road  
CITY: Collegeville  
STATE: PA  
COUNTRY: USA  
ZIP: 19426  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/451,822A  
FILING DATE: 26-MAY-1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/323,430  
FILING DATE: 14-OCT-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/934,372  
FILING DATE: 21-AUG-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/549,587  
FILING DATE: 06-JUL-1990  
ATTORNEY/AGENT INFORMATION:  
NAME: Sawitzky, Martin  
REGISTRATION NUMBER: 29,699  
REFERENCE/DOCKET NUMBER: A0496E  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (610) 454-3816  
TELEFAX: (610) 454-3808  
INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 821 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULAR TYPE: peptide  
US-08-451-822A-13

Query Match 21.9%; Score 375.5; DB 2; Length 821;  
Best Local Similarity 31.8%; Pred. No. 1e-25;  
Matches 90; Conservative 54; Mismatches 112; Indels 27; Gaps 8;

QY 20 PPAARAGPPKADKVPQVRLIGRTVRLQCPVEGDPPLTMWTKDRTIHSGMSRRRV 79  
DB 38 PPTKYQISOPEV-----YVAPGESLEVRCLK--DAAVISWTKD--VHLGPNRTV 86  
QY 80 L-FOGLKVKQVERDAGVYVCKATNGFGLSVNYTLVLDDISPGKESLGPDSSSGGQED 138  
DB 87 LIGETLQIKGATPRDSGLYACTASRTVDSRTVYFMVNTDAISSGDD---EDDTGAE 142  
QY 139 PASQ--QWAPRFTQPSKRRRVIAAPVSSVRLKCVASGHPRPDITMWDQALT--- 192  
DB 143 FVSESNNNRABAYMTNTEKMEKRLHAVPAANTVFRCPAGNPMPTMRWLKNGKEFKQEH 202  
QY 193 RPEAAEPKUKKWTLSKULRPEDSGKYTCRVSNRAGAINATYKVDVIQRTSKPVLGTG 252  
DB 203 RIGGYKVRQHWSLIMESVVPSPDKAGYTCVENEYGSINHTYHLDVERSPHRPILQAGL 262  
QY 253 PVNTTVDGCGTTSFOCKVRSVDKPVYIOMLKRVE-----YGAEG 290  
DB 263 PANASTVVGDVGFVCKVYSDAQPHIQWIKHYEKNGSKYGPDG 305

Search completed: February 2, 2005, 18:26:58  
Job time : 29 secs



GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: February 2, 2005, 18:17:51 ; Search time 18 Seconds  
(without alignments)  
1731.902 Million cell updates/sec

Title: US-10-613-413B-8

Perfect score: 1717  
Sequence: 1 MTPSPDLLLLLPPLLLGAFP.....VLPTGDVMSRPDGSYINRPL 324

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database :  
1: p1r1:\*  
2: p1r2:\*  
3: p1r3:\*  
4: p1r4:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Length	DB ID	Description
1	425.5	24.8	812 1 A36477	fibroblast growth
2	424.5	24.7	814 1 A39752	fibroblast growth
3	422	24.6	822 2 B49151	fibroblast growth
4	416	24.2	822 2 S19947	fibroblast growth
5	409	23.8	800 1 TVH0F	fibroblast growth
6	408.5	23.8	800 2 A48921	heparin-binding gr
7	408.5	23.8	801 2 I55363	fibroblast growth
8	399.5	23.3	797 2 S38579	fibroblast growth
9	393.5	22.9	806 2 A35963	protein-tyrosine k
10	393	22.9	806 1 TVH0F3	fibroblast growth
11	389.5	22.7	819 1 TVCHFG	fibroblast growth
12	389.5	22.7	822 2 B54846	fibroblast growth
13	385.5	22.5	818 2 UC4058	protein-tyrosine k
14	383.5	22.3	824 2 S24108	protein-tyrosine k
15	382.5	22.3	802 1 TVH0F4	fibroblast growth
16	382	22.2	480 2 A56182	fibroblast growth
17	382	22.2	829 2 UC4583	fibroblast growth
18	381	22.2	480 2 B56182	fibroblast growth
19	380	22.1	816 2 A49151	fibroblast growth
20	379.5	22.1	769 2 S16236	fibroblast growth
21	379.5	22.1	821 1 TVMSBK	fibroblast growth
22	379.5	22.1	822 2 A45081	fibroblast growth
23	379.5	22.1	822 2 A41794	keratinocyte growt
24	379.5	22.1	823 2 B35963	protein-tyrosine k
25	375.5	21.9	821 1 TVH0F2	fibroblast growth
26	372.5	21.7	822 2 I49289	fibroblast growth
27	371.5	21.6	799 2 S18209	fibroblast growth
28	370.5	21.6	822 2 S29840	fibroblast growth
29	368	21.4	820 2 S17295	fibroblast growth

30	367.5	21.4	662 2 C40862	heparin-binding gr
31	367.5	21.4	822 1 TVH0FG	fibroblast growth
32	364.5	21.2	361 2 PNO020	fibroblast growth
33	363.5	21.2	832 2 JH0393	fibroblast growth
34	361.5	21.1	822 1 TVMSFG	fibroblast growth
35	360	21.0	824 2 S36439	fibroblast growth
36	352.5	20.5	813 1 A49123	fibroblast growth
37	324	18.5	353 2 S51242	heparin-binding fi
38	318	18.5	682 2 A35969	heparin-binding gr
39	315	18.3	713 2 I50128	fibroblast growth
40	307	17.9	707 2 A38429	keratinocyte growt
41	307	17.9	707 2 A54846	fibroblast growth
42	307	17.9	729 2 A56795	fibroblast growth
43	305	17.8	733 2 I49263	fibroblast growth
44	304	17.7	302 2 C36464	fibroblast growth
45	304	17.7	2 S51635	fibroblast growth

## ALIGNMENTS

```
RESULT 1
A36477
N;Contig: fibroblast growth factor receptor A2 precursor - African clawed frog
C;Species: Xenopus laevis (African clawed frog)
C;Date: 08-Mar-1991 #sequence_revision 19-Jan-1996 #text_change 09-Jul-2004
C;Accession: A36477; C39752
R;Musci, T.J.; Amaya, E.; Kirschner, M.W.
Proc. Natl. Acad. Sci. U.S.A. 87, 8365-8369, 1990
A;Title: Regulation of the fibroblast growth factor receptor in early Xenopus embryos.
A;Reference number: A36477; PMID:91045998; PMID:2172985
A;Accession: A36477
A;Molecule type: mRNA
A;Residues: 1-812 <MUS>
A;Cross-references: UNIPROT:P22182; GB:U24491; GB:M37201; NID:9857677; PIDN:AAA6868.1; I
R;Friesel, R.; Dawid, I.B.
Mol. Cell. Biol. 11, 2481-2488, 1991
A;Title: cDNA cloning and developmental expression of fibroblast growth factor receptors
A;Reference number: A39752; PMID:91203867; PMID:1850097
A;Accession: C39752
A;Molecule type: mRNA
A;Residues: 1-30,119-189,'G',191-418,'U',420-636,'R',638-788,'V',790-812 <FRI>
A;Cross-references: GB:M62322; NID:9214999; PIDN:AAA4999.1; PID:9214900
C;Superfamily: basic fibroblast growth factor receptor 1; immunoglobulin homology; protei
C;Keywords: alternative splicing; ATP; autophosphorylation; duplication; glycoprotein; gr
protein kinase
F;1-21/Domin: signal sequence #status predicted <SIG>
F;22-812/Product: fibroblast growth factor receptor A2, long splice form #status predict
F;22-312/Domin: extracellular #status predicted <EXT>
F;22-30,119-812/Product: fibroblast growth factor receptor A2, short splice form #status
F;47-102/Domin: immunoglobulin homology <IM1>
F;125-132/Region: acidic
F;157-228/Domin: immunoglobulin homology <IM2>
F;266-339/Domin: immunoglobulin homology <IM3>
F;373-393/Domin: transmembrane #status predicted <TM>
F;394-812/Domin: intracellular #status predicted <INT>
F;470-755/Domin: protein kinase homology <KIN>
F;478-486/Region: protein kinase ATP-binding motif
F;54-100,174-226,273-337/Diulfide bonds: #status predicted
F;76,116,133,177,223,236,260,292,313,326/Binding site: carbohydrate (Asn) (covalent) #st
F;508,525,617/Active site: Lys, Glu, Asp #status predicted
F;622,635/Binding site: magnesium (Asn, Asp) #status predicted
F;648/Binding site: phosphate (Tyr) (covalent) (by autophosphorylation) #status predictec
```

Query Match 24.8%; Score 425.5; DB 1; Length 812;  
Best Local Similarity 33.2%; Pred. No. 3.7e-23;  
Matches 106; Conservative 61; Mismatches 123; Indels 29; Gaps 11;

9 LLLPPLLLGAFPPAAARGPKNADKVPV-----QVARGRTVLLGCPVSGDPPLRT 61  
DB 7 LLLMGVLLGA--ALSVARPPSTLPDEVAPKTKVEVEYSNQPGRITLQGLREDVDGIN 64

```

QY 62 MTKDGRTHSGMSRFRVLPGGLKVKOVEREDAGVYVVCATNGFGLSVNYTL---VVLDD 118
DB 65 -WVKNGVOL-SENNRRIRIGEELQISNAGEDNGVAC-VTNG---PSRTYVLGVNVS 118
QY 119 DISPGKESLGPSSSGQGEDPASQOWA--RPRFTOPSXMRRIYARPVGSSVRLKCVASG 176
DB 119 DALPSAEDDDDDDNSSSEKKAENSKPNRPLWMSHPEKMKLHAVALPAKTVFRCPRANG 178
QY 177 HPRPDLTMKKDDOALRPE---AAEPRKKKWTLSLKNLRPEDSGKTCVSRNAGAINNT 233
DB 179 TPLPRLMLKNNAFQODDRIIGYKVRSGTWSLIMDSVPSDGNTYCIENKYGAINNT 238
QY 234 YKVDVILQRTSRKPVLTGTHPVNTTVDGFTTSFOCKVRSDVKPVLQMLKRVGYGAEGRN 293
DB 239 YQDIVERSPHRIILQAGLPANTSVTGTABESCKVSDPQHILMLHIEL-----NG 293
QY 294 STIDVGQKRV-VLPTGDV 311
DB 294 SRVADGFPYVELIKTAGV 312

```

## RESULT 2

```

A39752
Fibroblast growth factor receptor A1 precursor - African clawed frog
N:Contains: fibroblast growth factor receptor A1, short splice form; protein-tyrosine ki
C:Species: Xenopus laevis (African clawed frog)
C>Date: 07-Feb-1992 #sequence_revision 19-Jan-1996 #text_change 09-Jul-2004
C:Accession: A39752; B39752
R:Riesbeck, R.; Dawid, I.B.
Mol. Cell. Biol. 11, 2481-2489, 1991
A:Title: cDNA cloning and developmental expression of fibroblast growth factor receptor
A:Reference number: A39752; MUID:91203867; PMID:1850097
A:Accession: A39752
A:Molecule type: mRNA
A:Residues: 1-814 <FR1>
A:Cross-references: UNIPROT:Q91897; GB:M55163; NID:g214893; PIDN:AAA49990.1; PID:g214894
A:Accession: B39752
A:Molecule type: mRNA
A:Residues: 1-30,119-814 <FR2>
A:Cross-references: GB:M55163
C:Superfamily: Basic fibroblast growth factor receptor 1; immunoglobulin homology; protei
C:Keywords: alternative splicing; ATP; autophosphorylation; duplication; glycoprotein; g
protein kinase
F:1-21/Domain: signal sequence #status predicted <SIG>
F:22-814/Product: fibroblast growth factor receptor A1, long splice form #status experim
F:22-372/Domain: extracellular #status predicted <EXT>
F:22-30,119-814/Product: fibroblast growth factor receptor A1, short splice form #status
F:47-102/Domain: immunoglobulin homology <IM1>
F:125-132/Region: acidic
F:167-228/Domain: immunoglobulin homology <IM2>
F:266-339/Domain: immunoglobulin homology <IM3>
F:373-393/Domain: transmembrane #status predicted <TM>
F:394-814/Domain: intracellular #status predicted <INT>
F:472-757/Domain: protein kinase homology <KIN>
F:480-488/Region: protein kinase ATP-binding motif
F:54-100,174-226,273-337/Disulfide bonds: #status predicted
F:76,116,133,177,222,236,260,292,313,326/Binding site: carbohydrate (Asn) (covalent) #st
F:510,527,613/Active site: Lys, Glu, Asp #status predicted
F:624,637/Binding site: magnesium (Asn, Asp) #status predicted
F:650/Binding site: phosphate (Tyr) (covalent) (by autophosphorylation) #status predicte

```

```

Query Match 24.7%; Score 424.5; DB 1; Length 814;
Best Local Similarity 32.5%; Pred. No.4,4e-23;
Matches 103; Conservative 62; Mismatches 127; Indels 25; Gaps 10;

```

```

QY 9 LLLPPLLGAFFPAAAGPPKADKVRP-----QVARIQRTYRLQCPYEGDPPPLT 61
DB 7 LLLMGVLGA--ALSTVAREPSTLPDEVAKTKTEWVPYSAKRGDVTYTLQCRLEVDYQIS 64
QY 62 MTKDGRTHSGMSRFRVLPGGLKVKOVEREDAGVYVVCATNGFGLSVNYTLVLDLDS 121
DB 65 -WVKNGVOL-SENNRRIRIGEELQISNAGEDNGVAC-VTNG---PSRTYVLGVNVS 121

```

```

QY 122 PKESLGPSSSGQGEDPASQOWA--RPRFTOPSXMRRIYARPVGSSVRLKCVASGHPR 179
DB 122 PSAEDDDDDDDDNSSSEKKAENSKPNRPLWMSHPEKMKLHAVALPAKTVFRCPRANG 181
QY 180 PDITMKDDOALRPE---AAEPRKKKWTLSLKNLRPEDSGKTCVSRNAGAINNT 235
DB 182 PALRLMKNGKEF-RPDQRIIGYKVRSGTWSLIMDSVPSDGNTYCIENKYGAINNT 240
QY 236 VVIVIRTSKPVLTGTHPVNTTVDGFTTSFOCKVRSDVKPVLQMLKRVGYGAEGRN 295
DB 241 LDIVERSPHRIILQAGLPANTSVTGTABESCKVSDPQHILMLHIEL-----NGSR 295
QY 296 IDVGQKRV-VLPTGDV 311
DB 296 VASDGFYVELIKTAGV 312

```

## RESULT 3

```

B49151
Fibroblast growth factor receptor 4 - Iberian ribbed newt
C:Species: Pleurodeles waltlilii (Iberian ribbed newt)
C>Date: 19-Dec-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004
C:Accession: B49151
R:Shi, D.L.; Feige, J.J.; Riou, J.F.; Desimone, D.W.; BoucAUT, J.C.
Development 116, 261-273, 1992
A:Title: Differential expression and regulation of two distinct fibroblast growth factor
A:Reference number: B49151; MUID:93130775; PMID:1483392
A:Accession: B49151
A:Status: preliminary
A:Molecule type: nucleic acid
A:Residues: 1-822 <SH1>
A:Cross-references: UNIPROT:Q91288; GB:X65059; NID:g64252; PIDN:CAA46192.1; PID:g64253
A:Experimental source: tail-pud
A>Note: sequence extracted from NCBI backbone (NCBIN:122598, NCBI:122599)
C:Superfamily: Basic fibroblast growth factor receptor 1; immunoglobulin homology; protei
C:Keywords: ATP; growth factor receptor
F:283-354/Domain: immunoglobulin homology <IM>
F:484-769/Domain: protein kinase homology <KIN>
F:492-500/Region: protein kinase ATP-binding motif

```

```

Query Match 24.6%; Score 422; DB 2; Length 822;
Best Local Similarity 32.0%; Pred. No. 6.8e-23;
Matches 110; Conservative 66; Mismatches 134; Indels 34; Gaps 12;

```

```

QY 2 TPSPILLPLPPLLGARPPAAAGPPK-----MADKVRQVRL---GRTVLQCPV 53
DB 15 TTPPLALLCGLL--AFSAUSCARTLPEGRKANLAELVSEEBHFLDPGNALFLFC-- 69
QY 54 EGDPPPLTMW-TKDGRTTHSGMSRFRVLPGGLKVKOVEREDAGVYVVCATNGFGLSVNY 112
DB 70 DPNQTTIWNWYTESRLDHGG--RIRLDVYLEIADYVEDSGLYLC-VVGCTGHIILNF 126
QY 113 TLVVLDDISPG--KESLGPSSSG--QGEDPASQOWARPRFTOPSXMRRIYARPVGSS 167
DB 127 TISVVDLSASGDDDDHGDREDSAGDMEDPPYSTSYAPAFWSQPDQKDLVAVPAGNT 186
QY 168 VRLKCVASGHRPDLTMKKDDOAL---TRPAAERKKKWTLSLKNLRPEDSGKTCVVS 224
DB 187 VKFRPDSAGNPLPGIRRMKRNREGEHRIGIRLRHQMWSLVMSVPSDRGNTCLVE 246
QY 225 NRAGAINNTYKVDVILQRTSRKPVLTGTHPVNTTVDGFTTSFOCKVRSDVKPVLQMLKRV 284
DB 247 NKFGSISYSLVDIVERSPHRIILQAGLPANTSVTGTABESCKVSDPQHILMLHIEL 306
QY 285 E-----YGAEG---RHNSTIDVGQKRVVLPTGDVSRPDSGY 319
DB 307 EVNGSRVGPDPGVFPQVLKTADINSSEVEVLYHNVSFEDAGEY 350

```

```

RESULT 4
S19947
fibroblast growth factor receptor - Iberian ribbed newt

```

C:Species: Pleurodeles waltl (Iberian ribbed newt)  
 C>Date: 06-Jan-1995 #sequence\_revision 06-Jan-1995 #text\_change 09-Jul-2004  
 C/Accession: S19947  
 R/Shi, D.L.; Fejge, J.J.; Riou, J.F.; Desimone, D.W.; Boucarr, J.C.  
 submitted to the EMBL Data Library, March 1992  
 A/Description: Receptors during early development of the urodele Pleurodeles waltl.  
 A/Reference number: S19947  
 A/Accession: S19947  
 A/Status: preliminary  
 A/Molecule type: mRNA  
 A/Residues: 1-822 <SH1>  
 A/Cross-references: UNIPROT:Q91288; EMBL:X65059  
 C/Superfamily: basic fibroblast growth factor receptor 1; immunoglobulin homology; prote  
 C/Keywords: ATP; growth factor receptor  
 F:283-354/Domain: immunoglobulin homology <IMM>  
 F:484-769/Domain: protein kinase homology <KIN>  
 F:492-500/Region: protein kinase ATP-binding motif

Query Match 24.2%; Score 416; DB 2; Length 822;  
 Best Local Similarity 31.7%; Pred. No. 1,9e-22;  
 Matches 109; Conservative 66; Mismatches 135; Indels 34; Gaps 12;

QY 2 TSPRLLLPRLGAFPPAAAGRPK-----MADKVPQVRL--GRTVRLQCPV 53  
 DB 15 TTRPLALLCGLL--AFSALSCARTLPGRKXNLAELVSEEHFLDPGNALRLFC-- 69  
 QY 54 EGDPPPLTWV-TKDGRTIHSGWSPFVLPGGLKVKOVEREDAGVYVCATNGFSGLSVNY 112  
 DB 70 DPNQTTIVMWTSTLQHG--RILDTVQEIADVTYDSGLYIC-VVPGGHILRNF 126  
 QY 113 TLVLVDISPQ--KESLGPSSG--GQEDPASQOMARRFPQSKRRVRLAPVSS 167  
 DB 127 TISVDSLASGDDDEHGREDSAGMDPPYSTSYRAFPWSQPMKDLAVAPAGNT 186  
 QY 168 VRLKCVASGHPREDITMMDQAL---TRPEAEPKPKKWTLSKNLRPDSGKYTCRV 224  
 DB 187 VKRCPASAGPTGIRLKNKRGEGEHRIGIRLKHQMSLVWESVPSDRNGYTCVLE 246  
 QY 225 NRAGANATYKVDVIOQTRSKPVLGTHPVNTTVDFGTTSPCKVRSVDKPVLIOMLKRV 284  
 DB 247 NKGGISISYLLDLVESHPRIQLQGLPANTTAMLSGVDQFCKVSDAQPHIOMLKH 306  
 QY 285 E-----YGAEG---RHNSITDVGGQKVVLPFGDVMSRPDGSY 319  
 DB 307 EVNGSRYPGDPGVFVQLTKTADINSSEVLYLHNVSFEEDAGEX 350

RESULT 5  
 TWHU2P  
 fibroblast growth factor receptor flg-2 precursor - human  
 N:Contains: protein-tyrosine kinase (EC 2.7.1.112) flg-2  
 C/Species: Homo sapiens (man)  
 C/Date: 31-Dec-1993 #sequence\_revision 31-Dec-1993 #text\_change 16-Jun-2000  
 C/Accession: A60350; S21843  
 R/Aviv, A.; Zimer, Y.; Yaron, A.; Yarden, Y.; Givol, D.  
 Oncogene 6, 1089-1092, 1991  
 A/Title: Flg-2, a new member of the family of fibroblast growth factor receptors.  
 A/Reference number: A60350; MUID:91296390; PMID:1648703  
 A/Accession: A60350  
 A/Molecule type: mRNA  
 A/Residues: 1-800 <AV1>  
 A/Cross-references: EMBL:X58255; NID:931382; PIDN:CAA41209.1; PID:931383  
 A/Experimental source: keratinocytes  
 C/Comment: This may be a receptor for keratinocyte growth factor.  
 C/Genetics:  
 A/Gene: GDB:FGFR2; UWS; CFD1; KGF; FLG2  
 A/Cross-references: GDB:121723; OMIM:176943  
 A/Map position: 10q25.3-10q26  
 C/Superfamily: basic fibroblast growth factor receptor 1; immunoglobulin homology; prote  
 C/Keywords: ATP; autophosphorylation; duplication; glycoprotein; growth factor receptor;  
 F:1-21/Domain: signal sequence #status predicted <SIG>  
 F:22-800/Product: fibroblast growth factor receptor flg-2 #status predicted <MAT>  
 F:22-369/Domain: extracellular #status predicted <EXT>

F:131-137/Region: acidic  
 F:262-335/Domain: immunoglobulin homology <IMM>  
 F:370-390/Domain: transmembrane #status predicted <TM>  
 F:391-800/Domain: intracellular #status predicted <INT>  
 F:464-749/Domain: protein kinase homology <KIN>  
 F:472-480/Region: protein kinase ATP-binding motif  
 F:59-107, 170-222, 269-333/Disulfide bonds: #status predicted  
 F:166,219,256,288,309,322/Binding site: carbohydrate (Asn) (covalent) #status predicted  
 F:502,519,611/Active site: Lys, Glu, Asp #status predicted  
 F:616,629/Binding site: magnesium (Asn, Asp) #status predicted  
 F:642/Binding site: phosphate (Tyr) (covalent) (by autophosphorylation) #status predicted

Query Match 23.8%; Score 409; DB 1; Length 800;  
 Best Local Similarity 34.3%; Pred. No. 5.8e-22;  
 Matches 103; Conservative 48; Mismatches 111; Indels 38; Gaps 10;

QY 22 AAAAGPPKADKVPV-----QVA-RLGRTVRLQC-PVSGDPPPLTWTKD 66  
 DB 16 AGATSEPPGPEQVRRAAEVGPSPQOEQVAFSGDVTVELSCHPFGAGPTGTWAKD 75  
 QY 67 GRTIHSGWSPFVLPGGLKVKOVEREDAGVYVC-KATNGFSGLSVNTVLVLDISPQK 124  
 DB 76 GTGLVAS-HRIIVGPRQLVLAHSHEDAGVYSCQHLTR--RVLCFVRLVDAPSSGD 131  
 QY 125 ESIGPSSSGQGDPPASQOMARRFPQSKRRVRLAPVSSVRLKCVASGHPREDITM 184  
 DB 132 DEDGEDVA---EDTGAFTW-----TRPRMDKLLAVPAANTVRRCPAGPTPSISM 182  
 QY 185 MKDDQAL--RPEAEPKPKKWTLSKNLRPDSGKYTCRVSNRAGAINATYKVDVIO 241  
 DB 183 LKNGKEFRQGHRLGILKHQMSLVWESVPSDRNGYTCVENKFGSIRQTYLTLVLR 242  
 QY 242 TSKPVLGTHPVNTTVDFGTTSPCKVRSVDKPVLIOMLKVE-----YGAEGRHNSIT 296  
 DB 243 SPHRPILQGLPANTTALISGSDVEFRCKVSDAQPHIOMLKVEVNGSKVPDGTPTDV 302

RESULT 6  
 A48991  
 heparin-binding growth factor receptor - mouse  
 N:Alternate names: HBGF receptor  
 N:Contains: protein-tyrosine kinase (EC 2.7.1.112)  
 C/Species: Mus musculus (house mouse)  
 C/Date: 19-Dec-1993 #sequence\_revision 18-Nov-1994 #text\_change 09-Jul-2004  
 C/Accession: A48991  
 R/Katoh, O.; Hattoori, Y.; Sasaki, H.; Sakamoto, H.; Fujimoto, K.; Fujii, T.; Sugimura, T.  
 Cancer Res. 53, 1136-1141, 1993  
 A/Title: Isolation of the complementary DNA encoding a mouse heparin-binding growth factor  
 A/Reference number: A48991; MUID:93177694; PMID:8382556  
 A/Accession: A48991  
 A/Status: preliminary  
 A/Molecule type: nucleic acid  
 A/Residues: 1-800 <KAT>  
 A/Cross-references: UNIPROT:Q61851; GB:S56291; NID:9298329; PIDN:AA82553.1; PID:9298330  
 A/Experimental source: brain  
 A/Note: sequence extracted from NCBI backbone (NCIN:126536, NCIP:126537)  
 C/Superfamily: basic fibroblast growth factor receptor 1; immunoglobulin homology; protei  
 C/Keywords: ATP; growth factor receptor; heparin binding; phosphotransferase; tyrosine-  
 F:262-335/Domain: immunoglobulin homology <IMM>  
 F:464-749/Domain: protein kinase homology <KIN>  
 F:472-480/Region: protein kinase ATP-binding motif

Query Match 23.8%; Score 408.5; DB 2; Length 800;  
 Best Local Similarity 34.4%; Pred. No. 6.3e-22;  
 Matches 106; Conservative 49; Mismatches 114; Indels 39; Gaps 11;

QY 22 AAAAGPPKADKVPV-----QVA-RLGRTVRLQC-PVSGDPPPLTWTKD 66  
 DB 16 AGATSEPPGPEQVRRAAEVGPSPQOEQVAFSGDVTVELSCHPFGAGPTGTWAKD 75  
 QY 67 GRTIHSGWSPFVLPGGLKVKOVEREDAGVYVC-KATNGFSGLSVNTVLVLDISPQK 124  
 DB 76 GTGLVAS-HRIIVGPRQLVLAHSHEDAGVYSCQHLTR--RVLCFVRLVDAPSSGD 131

QY 125 ESLGPDSSGGQEDPASQOMARPRFQPSKMRRAVAPVSSVRLKCVASGHPEDITW 184  
 DB 132 DEDGEDVA-----EDTGAPW-----TRPRMDKLLAVPAANTVFRCAAGNPSPISW 182  
 QY 185 MKDDQALT--RPEAEPKPKKWTLSLKNLRPEDSGKYTCRVSNAGAINATYKVDVIO 241  
 DB 183 LKNGKEFRGEHRIIGIKLKHQOWSLVMSVPSDRGNVTCVENKFGSIROTYYTLDVLER 242  
 QY 242 TRSKPVLTGTHVNTTVDDGGTTSFQCKRSDVKPIQWLKVEYGAEGRHNSTIDVGQ 301  
 DB 243 SPHRPLQAGLPANQATAILGSDVEFHCKVYSDAQPHIOWLKHVEV-----NGSKVPGDT 297  
 QY 302 KFY-VLPT 308  
 DB 298 PYVTVLKT 305

## RESULT 7

155363  
 fibroblast growth factor receptor 3 - mouse  
 C:Species: Mus musculus (house mouse)  
 C>Date: 02-Jul-1996 #sequence\_revision 02-Jul-1996 #text\_change 09-Jul-2004  
 C:Accession: I55363; B53627  
 R:Ornitz, D.M.; Leder, P.  
 J. Biol. Chem. 267, 16305-16311, 1992  
 A>Title: Ligand specificity and heparin dependence of fibroblast growth factor receptors  
 A:Reference number: I55363; MUID:92355591; PMID:1379594  
 A:Accession: I55363  
 A>Status: preliminary  
 A:Molecule type: translated from GB/EMBL/DBJ  
 A:Residues: 1-801 <RES>  
 A:Cross-references: UNIPROT:061851; GB:M81342; NID:g199144; PIDN:AAA9535.1; PID:g199145  
 R:Chellalajah, A.T.; McEwen, D.G.; Werner, S.; Xu, J.; Ornitz, D.M.  
 U. Biol. Chem. 269, 11620-11627, 1994  
 A>Title: Fibroblast growth factor receptor (FGFR) 3. Alternative splicing in immunoglobulin  
 A:Reference number: A53627; MUID:94209351; PMID:7512569  
 A:Accession: B53627  
 A>Status: preliminary  
 A:Molecule type: DNA  
 A:Residues: 242-364 <CHE>  
 A:Cross-references: GB:L26492  
 C:Genetics:  
 A:Gene: mFR3  
 A:Introns: 304/3; 353/1  
 C:Superfamily: basic fibroblast growth factor receptor 1; immunoglobulin homology; prote  
 C:Keywords: ATP; growth factor receptor  
 F:464-750/Domain: immunoglobulin homology <IMM>  
 F:472-480/Region: protein kinase ATP-binding motif

Query Match 23.8%; Score 408.5; DB 2; Length 801;

Best Local Similarity 34.4%; Pred. No. 6.3e-22; Matches 106; Conservative 49; Mismatches 114; Indels 39; Gaps 11;

QY 22 AAAAGPPKADKVR-----QVA-RLGRVRLQC-PVEGDPPPLTMTWTD 66  
 DB 16 AATSEPPPEQGRVRAAEVGPBPSQEQVAFSGDVELSCHPPGAPGPIYMAKD 75  
 QY 67 GTTHSGMRFRVLPQGLKVKOVERDAGVYC--KAINGFSLSVNTVLVLDDISPK 124  
 DB 76 GTGLVAS-HRIIVGPRLQVLNASHEDAGVSCQHRLTR---RVLCHEFSVRTVDAPSSGD 131  
 QY 125 ESLGPDSSGGQEDPASQOMARPRFQPSKMRRAVAPVSSVRLKCVASGHPEDITW 184  
 DB 132 DEDGEDVA-----EDTGAPW-----TRPRMDKLLAVPAANTVFRCAAGNPSPISW 182  
 QY 185 MKDDQALT--RPEAEPKPKKWTLSLKNLRPEDSGKYTCRVSNAGAINATYKVDVIO 241  
 DB 183 LKNGKEFRGEHRIIGIKLKHQOWSLVMSVPSDRGNVTCVENKFGSIROTYYTLDVLER 242  
 QY 242 TRSKPVLTGTHVNTTVDDGGTTSFQCKRSDVKPIQWLKVEYGAEGRHNSTIDVGQ 301

DB 243 SPHRPLQAGLPANQATAILGSDVEFHCKVYSDAQPHIOWLKHVEV-----NGSKVPGDT 297  
 QY 302 KFY-VLPT 308  
 DB 298 PYVTVLKT 305

## RESULT 8

538579  
 fibroblast growth factor receptor 3 - Iberian ribbed newt (fragment)  
 C:Species: Pleurodeles waltlii (Iberian ribbed newt)  
 C>Date: 06-Jan-1995 #sequence\_revision 06-Jan-1995 #text\_change 09-Jul-2004  
 C:Accession: S38579  
 R:Shi, D.L.; Fromentoux, V.; Jaunay, C.; Umbhauer, M.; Boucaut, J.C.  
 submitted to the EMBL Data Library, November 1993  
 A:Description: Expression of FGFR-3 in amphibian embryos.  
 A:Reference number: S38579  
 A:Accession: S38579  
 A>Status: preliminary  
 A:Molecule type: mRNA  
 A:Residues: 1-797 <SHI>  
 A:Cross-references: UNIPROT:Q91287; EMBL:X75603  
 C:Superfamily: basic fibroblast growth factor receptor 1; immunoglobulin homology; protei  
 C:Keywords: ATP; growth factor receptor  
 F:258-331/Domain: immunoglobulin homology <IMM>  
 F:456-741/Domain: protein kinase homology <KIN>  
 F:464-472/Region: protein kinase ATP-binding motif

Query Match 23.3%; Score 399.5; DB 2; Length 797;

Best Local Similarity 33.5%; Pred. No. 2.8e-21; Matches 95; Conservative 43; Mismatches 97; Indels 49; Gaps 8;

QY 44 GRTVALQPVGGDPPPLTMTWTKDRTI-----HSGMGRFRVLPQGLKVKOVERDAGV 97  
 DB 50 GDTILSCITTESSVS-VWFKDGISVDPPTWSHRG-----QKLLKINVSIDSGEY 101  
 QY 98 VCKATNGFSLSVNTVLVLDDISPKGSLGPDSSGGQEDPASQOMARPRFQPSKMR 157  
 DB 102 SCKARQSEVLK-NTVAVTVD-----SPSGDDDDDEBSANAPKTRREMMEK 151  
 QY 158 RVIARPVGSSVRLKCVASGHPEDITWTKDDQALT--RPEAEPKPKKWTLSLKNLRPE 214  
 DB 152 KLLAVPAANTVFRCPAGKPPSITWLNKGEKFEGRHIGIKLKHQOWSLVMSVPS 211  
 QY 215 DSGKYTCRVSNAGAINATYKVDVIOFRSKPVLTGTHPVNTTVDDGGTTSFQCKVRS 274  
 DB 212 DRGNVTCVANKYGTIRTYTLVDLERTPHRPIIOLAGRSKTYVGSDFEHCKVYSDA 271  
 QY 275 KPVIOMLKRVYGAEGRHNSTIDVGQKFFVLPFGDVMSRPDGS 318  
 DB 272 QPHIQWLGHVE-----VNGSKF-----GPDGN 293

## RESULT 9

A55963  
 protein-tyrosine kinase (BC 2.7.1.112) cek2 precursor - chicken  
 C:Species: Gallus gallus (chicken)  
 C>Date: 09-Nov-1990 #sequence\_revision 09-Nov-1990 #text\_change 09-Jul-2004  
 C:Accession: A55963  
 R:Paegle, E.B.  
 Proc. Natl. Acad. Sci. U.S.A. 87, 5812-5816, 1990  
 A>Title: A distinctive family of embryonic protein-tyrosine kinase receptors.  
 A:Reference number: A55963; MUID:90332672; PMID:2165604  
 A:Accession: A55963  
 A>Status: preliminary  
 A:Molecule type: mRNA  
 A:Residues: 1-806 <PAS>  
 A:Cross-references: UNIPROT:P18460; GB:M35195; NID:g211442; PIDN:AAA48664.1; PID:g211443  
 C:Genetics:  
 A:Gene: cek2  
 C:Superfamily: basic fibroblast growth factor receptor 1; immunoglobulin homology; protei  
 C:Keywords: ATP; autophosphorylation; duplication; glycoprotein; growth factor receptor;  
 F:1-23/Domain: signal sequence #status predicted <SIG>

F/24-806/Product: protein-tyrosine kinase cek2 #status predicted <MAT>  
 F/24-368/Domain: extracellular #status predicted <EXT>  
 F/131-138/Region: acidic  
 F/262-335/Domain: immunoglobulin homology <IMM>  
 F/369-389/Domain: transmembrane #status predicted <TM>  
 F/390-806/Domain: intracellular #status predicted <INT>  
 F/464-749/Domain: protein kinase homology <KIN>  
 F/472-480/Region: protein kinase ATP-binding motif  
 F/61-107,170-222,269-333/Disulfide bonds: #status predicted  
 F/96,219,256,288,309,322/Binding site: carbohydrate (Asn) (covalent) #status predicted  
 F/502,519,611/Active site: Lys, Glu, Asp #status predicted  
 F/616,629/Binding site: magnesium (Asn, Asp) #status predicted  
 F/642/Binding site: phosphate (Tyr) (covalent) (by autophosphorylation) #status predicted

Query Match 22.9%; Score 393.5; DB 2; Length 806;  
 Best Local Similarity 32.8%; Pred. No. 7,7e-21;  
 Matches 98; Conservative 52; Mismatches 118; Indels 31; Gaps 9;

16 LGAPPPAAARPPK--MADKVPKQVAF-----GTRVRLQCPVEGDPPLTWTK 65  
 17 VGAL-PAARRGAEKSGGQAAYLRSETALEELVFGSGDTIELSCVTSVS-V-FWFK 74  
 66 DGRTHSGMRFRVLPGQLVKOVERDAGVYCKATNGFGSLNVNTLVLDISPKKE 125  
 75 DGIGIAPS-NRTHIGQTLKIINVSYDGLSYSCPKRHSNEVLG-NFTVRVTD----- 125  
 126 SLGPDSSSGGQEDPASQOMARPRFTOPSKRRRIARVPGSSVRLKCVASGHPEDITWM 185  
 126 --SPSSGDDDDDDSDTGVFWTRDRDKKELIANPAANTYRFRPAGNPTPTIYWL 183  
 186 KDDQALT--RPEAAEPKKKWTLSLKNLRPEDSGKYTCVSNRAGAINATYKVDVQRT 242  
 184 KNGKEFKGHRIGIKLRHQQWSLVMSVSPDRGNATCVENKYGNIHRTYQGLDVLERS 243  
 243 RSKRPVLTGTRPVNTVTFGCTTSFQCKVRSDVKEVLIOMLRYE-----YGAEGHNSTI 296  
 244 PRRPITLQAGLPANQTVVGVNSVEPHCKVYSDAQPHIQLKGVENVGSKYGPDPPIYVTV 302

Db

RESULT 10

TVHNF3  
 Fibroblast growth factor receptor 3 precursor - human  
 N/Contains: protein-tyrosine kinase (EC 2.7.1.112)  
 C/Species: Homo sapiens (man)  
 C/Date: 31-Dec-1993 #sequence revision 31-Dec-1993 #text\_change 09-Jul-2004  
 R/Accession: A38576; A55273; E38269; I51880  
 R/Keegan, K.; Johnson, D.E.; Williams, L.T.; Hayman, M.J.  
 Proc. Natl. Acad. Sci. U.S.A. 88, 1095-1099, 1991  
 A/Title: Isolation of an additional member of the fibroblast growth factor receptor fami  
 A/Reference number: A38576; MUID:91142118; PMID:1847508  
 A/Accession: A38576  
 A/Molecule type: mRNA  
 A/Residues: 1-806 <KE>  
 A/Cross-references: UNIPROT:P22607; GB:M68051; NID:G182566; PIDN:AA52450.1; PID:G182566  
 R/Thompson, L.M.; Plummer, S.; Schalling, M.; Altherr, W.R.; Guehlis, J.F.; Housman, D.E  
 Genomics 11, 1133-1142, 1991  
 A/Title: A gene encoding a fibroblast growth factor receptor isolated from the Huntingto  
 A/Reference number: A55273; MUID:92147110; PMID:1664411  
 A/Accession: A55273  
 A/Status: nucleic acid sequence not shown  
 A/Molecule type: mRNA  
 A/Residues: 76-394, 'V', 396-806 <THO>  
 A/Cross-references: GB:M64347; NID:G182564; PIDN:AA58470.1; PID:G182565  
 A/Note: sequence extracted from NCBI backbone (NCBI:80296)  
 R/Partanen, U.; Mekela, T.P.; Alitalo, R.; Lehtvaeslahti, H.; Alitalo, K.  
 Proc. Natl. Acad. Sci. U.S.A. 87, 8913-8917, 1990  
 A/Title: Putative tyrosine kinases expressed in K-562 human leukemia cells.  
 A/Reference number: A38268; MUID:91062389; PMID:2247464  
 A/Accession: E38269  
 A/Molecule type: mRNA  
 A/Residues: 619-675 <PAR>  
 A/Cross-references: GB:M37782  
 R/Bellus, G.A.; Helfferon, T.W.; Ortiz de Luna, R.I.; Hecht, J.T.; Horton, W.A.; Machado,

Am. J. Hum. Genet. 56, 368-373, 1995  
 A/Title: Achondroplasia is defined by recurrent G380R mutations of FGFR3.  
 A/Reference number: I51880; MUID:95150025; PMID:7847369  
 A/Accession: I51880  
 A/Status: translated from GB/EMBL/DBJ  
 A/Molecule type: DNA  
 A/Residues: 361-379, 'R', 381-415 <RES>  
 A/Cross-references: GB:S76733; NID:G914201; PIDN:AA33323.1; PID:G914202  
 A/Note: this sequence represents a mutant form associated with achondroplasia  
 C/Genetics:  
 A/Gene: GDB:FGFR3  
 A/Cross-references: GDB:127526; OMIM:100800; OMIM:134934  
 A/Map position: 4p16.3-4p16.3  
 C/Function:  
 A/Description: receptor for both acidic and basic fibroblast growth factors  
 C/Superfamily: basic fibroblast growth factor receptor 1; immunoglobulin homology; protei  
 C/Keywords: ATP; autophosphorylation; duplication; glycoprotein; growth factor receptor;  
 F/1-22/Domain: signal sequence #status predicted <SIG>  
 F/23-806/Product: fibroblast growth factor receptor 3 #status predicted <MAT>  
 F/23-375/Domain: extracellular #status predicted <EXT>  
 F/133-139/Region: acidic  
 F/268-341/Domain: immunoglobulin homology <IMM>  
 F/376-396/Domain: transmembrane #status predicted <TM>  
 F/397-806/Domain: intracellular #status predicted <INT>  
 F/470-755/Domain: protein kinase homology <KIN>  
 F/478-486/Region: protein kinase ATP-binding motif  
 F/61-109,176-228,273-339/Disulfide bonds: #status predicted  
 F/98,225,262,294,315,328/Binding site: carbohydrate (Asn) (covalent) #status predicted  
 F/508,525,617/Active site: Lys, Glu, Asp #status predicted  
 F/622,635/Binding site: magnesium (Asn, Asp) #status predicted  
 F/648/Binding site: phosphate (Tyr) (covalent) (by autophosphorylation) #status predicted

Query Match 22.9%; Score 393; DB 1; Length 806;  
 Best Local Similarity 33.4%; Pred. No. 8,4e-21;  
 Matches 100; Conservative 49; Mismatches 116; Indels 34; Gaps 11;

22 AAAARPPKADKVVPRQVRL-----GTRVRLQCPVEGDP--PLTWTKDGRTHSGWS 75  
 35 AAEEVGPB-----DQOEQLVFGSGDAVELSCPPGGPKMP-ITWVVDGIGVPS-E 85  
 76 RFRVLPGQLVKOVERDAGVYV--KATNGFSLNVNTLVLDISPKESLGPSSS 133  
 86 RVLVGRQLQVLAASHEDSAYSCRQLRQ--RVLCHFVRYTDA PSSGDDGDEAE 142  
 134 GGGEDPASQOMARPRFTOPSKRRRIARVPGSSVRLKCVASGHPEDITWMDDQALT- 192  
 143 DTGVDTGAPYV-----TRPERMDKLLAVPAANTVFRCPAAGNPTPTISLKNGREFRG 197  
 193 --RPEAAEPKKKWTLSLKNLRPEDSGKYTCVSNRAGAINATYKVDVQRTSKPVLTG 250  
 198 EHHIGIKLRHQQWSLVMSVSPDRGNATCVENKFGSIRQTYLIDVLERSPHRPILQA 257  
 251 THPVNTVDFGCTTSFQCKVRSDVKEVLIOMLKEVEGAEGRHNSTIDVGQKRV-VLPT 308  
 258 GLPANOAVLVGSDVEPHCKVYSDAQPHIQLKGVENVGSKYGPDPPIYVTVLTK 311

Db

RESULT 11

TVCHRG  
 fibroblast growth factor receptor 1 precursor - chicken  
 N/Alternate names: basic fibroblast growth factor receptor  
 N/Contains: protein-tyrosine kinase (EC 2.7.1.112) cek1  
 C/Species: Gallus gallus (chicken)  
 C/Date: 31-Dec-1993 #sequence revision 31-Dec-1993 #text\_change 09-Jul-2004  
 R/Accession: A41345; A33908  
 R/Lee, P.L.; Johnson, D.E.; Couzens, L.S.; Fried, V.A.; Williams, L.T.  
 Science 245, 57-60, 1989  
 A/Title: Purification and complementary DNA cloning of a receptor for basic fibroblast gr  
 A/Reference number: A41345; MUID:8928406; PMID:2544996  
 A/Accession: A41345  
 A/Status: nucleic acid sequence not shown; not compared with conceptual translation  
 A/Molecule type: mRNA  
 A/Residues: 1-819 <LEB>

A:Cross-references: UNIPROT:P21804  
A:Note: part of the sequence was confirmed by protein sequencing  
R:Paquale, E.B.; Singer, S.J.  
Proc. Natl. Acad. Sci. U.S.A. 86, 5449-5453, 1989  
A:Title: Identification of a developmentally regulated protein-tyrosine kinase by using  
A:Reference number: A33908; MUID:89315814; PMID:2473471  
A:Accession: A33908  
A:Molecule type: mRNA  
A:Residues: 1-89, 'A', '91-685, 'W', 687-819 <PAS>  
A:Cross-references: GB:M24637  
A:Note: this protein is expressed in embryonic tissues and, at low levels, in adult brain  
C:Genetics:  
A:Gene: ceki  
C:Superfamily: basic fibroblast growth factor receptor 1; immunoglobulin homology; protein-tyrosine kinase  
C:Keywords: ATP; autophosphorylation; duplication; glycoprotein; growth factor receptor  
F:1-21/Domain: signal sequence #status predicted <SIG>  
F:22-819/Product: fibroblast growth factor receptor 1 #status predicted <MAT>  
F:22-374/Domain: extracellular #status predicted <EXT>  
F:125-132/Region: acidic  
F:169-230/Domain: immunoglobulin homology <IMM>  
F:375-395/Domain: transmembrane #status predicted <TM>  
F:396-819/Domain: intracellular #status predicted <INT>  
F:474-759/Domain: protein kinase homology <KIN>  
F:482-480/Region: protein kinase ATP-binding motif  
F:54-100, 116-228, 275-339/Distillate bonds: #status predicted  
F:76, 116, 225, 228, 262, 294, 315, 328/Binding site: carbohydrate (Asn) #status predicted  
F:512, 529, 621/Active site: Lys, Glu, Asp #status predicted  
F:626, 639/Binding site: magnesium (Asn, Asp) #status predicted  
F:652/Binding site: phosphate (Tyr) (covalent) (by autophosphorylation) #status predicted

Query Match 22.7%; Score 389.5; DB 1; Length 819;  
Best Local Similarity 31.3%; Pred. No. 1.5e-20;  
Matches 87; Conservative 54; Mismatches 118; Indels 19; Gaps 7;

Qy 23 AARGPPADKXVVR-----QVARGRVRLQCPVEGDPPLTWTKDGRTHGWS 75  
Db 19 SAARPAPIPLPQALPKPAIEVESHSAHGGDLLQLRCRRDVGGIN-WVRGVLDPEN-N 76  
Qy 76 RFRVLPGQLKQYERDAGVYVCKATNGFGLSVNTYLLVLDISPESKSLGPDSSGG 135  
Db 77 RTRTGEVEVRDVPEDSGLYACMTNPSGS-ETTVSVVNSDALPSAEDDDDDSS 135  
Qy 136 QEDPAS-----QGMARPRTPSKMRBRVLAIPVSSVRLKCVASGHPRDITWKKDQAL 191  
Db 136 EEKEDNTKPNQAVAPVITVPEKMEKHAAPAAKVAFKPSGSGTRPPLIRMLKNGKEF 195  
Qy 192 TRPE-----AAEPRKKWTLSLKNLRPEDSGKYTRGVSNRAGAINATYKVVDIQRTRSPV 247  
Db 196 -KPDHRIGYKVRVAITWGIIMDSVVPDCKGNTYCIENVKYSINHTYQLDIVERSPRRPI 254  
Qy 248 LTGTHPVNTTYDFEGTTSFOCKVRSDVKPVQLMKRYE 285  
Db 255 LQAGLPANKYVALGNSVEFVCKVYSDPQPHQLMKHIE 292

RESULT 12  
BS4846  
fibroblast growth factor receptor b precursor - rat  
C:Species: Rattus norvegicus (Norway rat)  
C:Date: 21-Jul-1995 #sequence\_revision 28-Jul-1995 #text\_change 16-Jul-1999  
C:Accession: BS4846  
J:Tagaki, Y.; Shrivastav, S.; Miki, T.; Sakaguchi, K.  
J. Biol. Chem. 269, 23749-23749, 1994  
A:Title: Molecular cloning and expression of the acidic fibroblast growth factor receptor  
A:Reference number: A54846; MUID:94374484; PMID:8089146  
A:Accession: BS4846  
A:Status: preliminary; not compared with conceptual translation  
A:Molecule type: mRNA  
A:Residues: 1-822 <TAK>  
C:Superfamily: basic fibroblast growth factor receptor 1; immunoglobulin homology; protein-tyrosine kinase  
C:Keywords: ATP; growth factor receptor  
F:112-233/Domain: immunoglobulin homology; protein-tyrosine kinase

Query Match	22.7%	Score 389.5	DB 2	Length 822
Best Local Similarity	31.3%	Pred. No. 1.5e-20		
Matches	100	Conservative	56	Mismatches 132, Indels 31, Gaps 10
QY	20	PAAARGPVKADKVPVQVRLGRVRLQCEVEDDPPPLTMMTKDGRTHSGMSFRV	79	
DB	38	PPTKQIOIOP-ACVAP-----GESLELRCLTK--DAVISMTIDG--VHIGPNRTV	86	
QY	80	L-PGLKVKQVEREDAGVYVCKATNGFGLSVNYTLVLDDISPGKESLCPDSSGQED	138	
DB	87	LIGELIOTIKGAPRDSGLYACAAARTVDESEITYFMVNVLDALSSGDEDDTDTSSEDPVSE	146	
QY	139	PASQGMARPRFTQPSKMRRIARPIVSGSVRLKCVASGHPRPDITMMKDDQALT--RPE	195	
DB	147	NRSNORA-PYMTNTEMEKRLAHPAANTVKRCPCAGNTPTRMKLKNQKFRQEHRIQ	205	
QY	196	AAEPKKKTWTLSLKNLRPEDSKTYTCRVSNRAAINATYKVDVIORTSRKPVLTGTHPVN	255	
DB	206	GKVRKNGHMSLIMESVPSDKGNVTCLENEXGSIHNTYHLDVRSRPHRIQAGLPAN	265	
QY	256	TTVDGCGTTSFCCCKRSVDKPVYIOMLKRYE-----YGAE-----RHNSITDVGQKF	303	
DB	266	ASTVVGGEVFCCKYSDAQPHIQWIKHVEKNGSKYGPDLPYLKYVLKSHG---INSSNA	322	
QY	304	VVLPTGDVMSRPDGSYLK 322		
DB	323	EVLALFNVTENDAGEYICK 341		
RESULT 13				
JC4058				
fibroblast growth factor receptor-4 precursor - African clawed frog				
C/Species: Xenopus laevis (African clawed frog)				
C/Date: 29-Jun-1995 #sequence_revision 14-Jul-1995 #text_change 09-Jul-2004				
C/Accession: J04058				
R/Shiozaki, C.; Tashiro, K.; Asano-Miyoshi, M.; Saigo, K.; Emori, Y.; Shiohawa, K.				
Gene 152, 215-219, 1995				
A/Title: Cloning of cDNA and genomic DNA encoding fibroblast growth factor rece ptor-4 of				
A/Reference number: J04058; MUID:95137391; PMID:7835703				
A/Accession: J04058				
A/Molecule type: mRNA				
A/Residues: 1-818 <SH>				
A/Cross-references: UNIPROT:Q91742; DDBJ:D31761; NID:9809527; PIDN:BA06539.1; PID:98095				
C/Genetics:				
A/Introns: 43/1; 125/1; 158/1; 213/1; 254/1; 318/1; 364/1; 429/1; 478/1; 556/1; 619/1; 66				
C/Superfamily: basic fibroblast growth factor receptor 1; immunoglobulin homology; protei				
C/Keywords: ATP, growth factor receptor; transmembrane protein				
F.1-26/Domain: signal sequence #status predicted <SIG>				
F.27-818/Product: fibroblast growth factor receptor-4 #status predicted <MAT>				
F.156-110/Domain: immunoglobulin homology <IM1>				
F.113-137/Domain: acidic #status predicted <ADI>				
F.177-238/Domain: immunoglobulin homology <IM2>				
F.276-347/Domain: immunoglobulin homology <IM3>				
F.383-400/Domain: transmembrane #status predicted <TM>				
F.447-762/Domain: protein kinase homology <KIN>				
F.485-493/Region: protein kinase ATP-binding motif				
Query Match	22.5%	Score 385.5	DB 2	Length 818
Best Local Similarity	29.5%	Pred. No. 3e-20		
Matches	98	Conservative	55	Mismatches 118, Indels 61, Gaps 9
QY	14	LILGAFPPAARGPVKAD-----KVRQVQVRLGRVRLQCEVEDDPPPLTMMTK 65		
DB	18	LILGLVLTATLSSCRPALSEDEANMKPEVEEHLILDPGALFLFCD-----TN 66		
QY	66	DGRTHSGMSFRVLPQG-----LTKQVEREDAGVYVCKATNGFGLSVNYTLVL 117		
DB	67	GSNGLNWRQDRRLPFGKIRKRVGTVLEVDYTESGLYIC-VAGTGKILRRFSISV 125		
QY	118	DDISFGKESLGDSSSGQEDPASQ-----QMARPRFTQPSKMRRIARPIVSGSVRL 170		

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Db      126 DSLASGDEE---DDEGREDTADTADINEBPVVFQAPVWTQPHRMKJLHAAVAGTAVF 182
Qy      171 KCVASGHPDPDITWMKDQALT---RPEAEPKPKKMTLSLKNLRPEDSGKYTCRVSNRA 227
Db      183 RCPAGSGPLPTIRMLKNGREFRQEHIGIRLHQMSLMVEVSDGNTCVVENNV 242
Qy      228 GAIMATYKVDVIORTSKPVLGTGHPVNTVDGFTTSFOCKRVSVKPVYQMLKREYIG 287
Db      243 GSUTYVTFIDLVERSHRRPILQGLPANTTARVGSDFVEFYCKVYSDAQPHIQMLKHIE-- 300
Qy      288 AEGRNHSTIDVGQKQK-----VTLPTGCV 311
Db      301 -----VNGSRFGPDPPFYQVLKTADI 322

```

## RESULT 14

```

S24108
protein-tyrosine kinase (EC 2.7.1.112) bek - chicken
N/Alternate names: receptor tyrosine kinase bek
C/Species: Gallus gallus (chicken)
C/Date: 25-Feb-1994 #sequence_revision 10-Nov-1995 #text_change 09-Jul-2004
C/Accession: S24108
R/Sato, M.; Kikawa, T.; Iwai, T.; Seki, J.; Sakato, N.; Kato, J.; Takeya, T.
Oncogene 6, 1279-1283, 1991
A/Title: Isolation of chicken-bek and a related gene; identification of structural varia
A/Reference number: S24108; MUID:91319411; PMID:1650446
A/Accession: S24108
A/Status: preliminary
A/Molecule type: mRNA
A/Residues: 1-824 <SNT>
A/Cross-references: UNIPROT:Q90749; EMBL:X61992; NID:963085; PIDN:CAA43965.1; PID:963086
C/Superfamily: basic fibroblast growth factor receptor 1; immunoglobulin homology; prote
C/Keywords: ATP; growth factor receptor; phosphotransferase; tyrosine-specific protein k
F:174-235/Domain: immunoglobulin homology <IMM>
F:482-767/Domain: protein kinase homology <KIN>
F:490-498/Region: protein kinase ATP-binding motif

```

```

Query Match      22.3%; Score 383.5; DB 2; Length 824;
Best Local Similarity 30.0%; Pred. No. 4.2e-20;
Matches 91; Conservative 57; Mismatches 114; Indels 41; Gaps 9;

```

```

Qy      44 GRTVRLQCPVEGDPPLITMTKDG-----RTIHSGMSPRVLPGLKXKQVEREAGV 96
Db      58 GEPLRLRQQLK--DAVMISWTKDGVPLGPNRTV-----IIGELYIKIDASPDSGL 107
Qy      97 YVCKATNGPGLSLAVNTLVLDLDSPKESLGPDSGSGGSD--PASQANARPRFTQPSK 154
Db      108 YACTAIRTLDSDTLYFTVNTDALSSGD---BDNDGSEDFVNSNQMRAPYWTITDK 163
Qy      155 MRRRVIRPVGSSVRLKCVASGHPRPDITWMKDQALT---RPEAEPKPKKMTLSLKNL 211
Db      164 MEKRLHAVPAAVNTYKRCPMANGNTPTMRMLKNGKEKQERIGCYKVRNGHMSLIVESV 223
Qy      212 RPDSGKYTCRVSNRAQAINATYVDVIORTSKPVLGTGHPVNTVDGFTTSFOCKVR 271
Db      224 VPSDKGNVTCIVENQYSINHTYLDIVERSPHRPILQAGLPANASAVVGSDVEFYCKVY 283
Qy      272 SDVKVPVQMLKREY-----VGABG-----RHSSTIDVGQKRVVLPDGVMSRPPGSY 319
Db      284 SDAQPHIQMLKREY-----VGABG-----RHSSTIDVGQKRVVLPDGVMSRPPGSY 340
Qy      320 LNK 322
Db      341 ICK 343

```

## RESULT 15

```

TVHUF4
fibroblast growth factor receptor 4 precursor - human
N/Alternate names: protein-tyrosine kinase tkf
N/Contents: protein-tyrosine kinase (EC 2.7.1.112)
C/Species: Homo sapiens (man)

```

```

C/Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 09-Jul-2004
C/Accession: S15345; A46615; A41598; D38269
R/Paranen, J.; Maekelae, T.P.; Berola, E.; Korhonen, J.; Hirvonen, H.; Claesson-Welsh, I
EMBO J. 10, 1347-1354, 1991
A/Title: FGFR-4, a novel acidic fibroblast growth factor receptor with a distinct expres
A/Reference number: S15345; MUID:91224085; PMID:1709094
A/Accession: S15345

```

```

A/Molecule type: mRNA
A/Residues: 1-802 <PAR>

```

```

A/Cross-references: UNIPROT:P22455; EMBL:X57205; NID:g31371; PIDN:CAA40490.1; PID:g31372
A/Note: binds acidic but not basic fibroblast growth factor with high affinity
R/Ron, D.; Reich, R.; Chedid, C.; Lengel, C.; Cohen, O.E.; Chan, A.M.; Newfield, G.; Miki,
J. Biol. Chem. 268, 5388-5394, 1993

```

```

A/Title: Fibroblast growth factor receptor 4 is a high affinity receptor for both acidic
A/Reference number: A46615; MUID:93194827; PMID:7680645
A/Accession: A46615

```

```

A/Status: nucleic acid sequence not shown; not compared with conceptual translation
A/Molecule type: mRNA

```

```

A/Residues: 1-296, 'D', 298-802 <RON>
A/Experimental source: mammary epithelial cell line B5/589

```

```

A/Note: sequence extracted from NCBI backbone (NCBI:127650)
A/Note: binds acidic and basic fibroblast growth factors with high affinity
R/Holtrich, U.; Braeuninger, A.; Streibhardt, K.; Ruebsamen-Waigmann, H.
Proc. Natl. Acad. Sci. U.S.A. 88, 10411-10415, 1991

```

```

A/Title: Two additional protein-tyrosine kinases expressed in human lung: fourth member c
A/Reference number: S19025; MUID:92073287; PMID:1720539
A/Accession: S19025

```

```

A/Status: nucleic acid sequence not shown; not compared with conceptual translation
A/Accession: A41598

```

```

A/Residues: 614-670 <PA2>
A/Cross-references: GB:M37781

```

```

A/Experimental source: K-562 leukemia cell line
A/Genetics:
A/Map position: 5q33.2-5qter

```

```

A/Cross-references: GDB:127929; OMIM:134935
A/Map position: 5q33.2-5qter

```

```

A/Description: receptor mediating effects of fibroblast growth factor
A/Note: expressed in normal lung; expressed in some carcinomas
C/Superfamily: basic fibroblast growth factor receptor 1; immunoglobulin homology; protei
C/Keywords: ATP; autophosphorylation; duplication; glycoprotein; growth factor receptor;
F:1-24/Domain: signal sequence #status predicted <SIG>
F:25-802/Product: fibroblast growth factor receptor 4 #status predicted <MAT>
F:25-369/Domain: extracellular #status predicted <EXT>
F:50-103/Domain: immunoglobulin homology <IM1>
F:165-326/Domain: immunoglobulin homology <IM2>
F:324-335/Domain: immunoglobulin homology <IM3>
F:370-390/Domain: transmembrane #status predicted <TMW>
F:391-802/Domain: intracellular #status predicted <INT>
F:465-750/Domain: protein kinase homology <KIN>
F:473-481/Region: protein kinase ATP-binding motif
F:57-101,172-224,271-333/disulfide bonds: #status predicted
F:112,258,290,311,322/Binding site: carbohydrate (Asn) (covalent) #status predicted
F:503,520,612/Active site: Lys, Glu, Asp #status predicted
F:617,630/Binding site: magnesium (Asn, Asp) #status predicted
F:643/Binding site: phosphate (Tyr) (covalent) (by autophosphorylation) #status predicted

```

```

Query Match      22.3%; Score 382.5; DB 1; Length 802;
Best Local Similarity 31.3%; Pred. No. 4.8e-20;
Matches 109; Conservative 50; Mismatches 136; Indels 53; Gaps 12;

```

```

Qy      6 LLLILPPLLILGAFPPAAARG-----PRKADKVPVPRQ---VARIGRTVRLQCPVEGD 56
Db      3 LLLALIGLVLLSVGPPVLSLEASVEVLEPCLAPSRQDQDELTVAGQVRLCC---GR 59

```

```

Qy 57 PPPLTMTWTDGRTIHSGWSRFRVLPQ-----LKVQVEREDAGVYVCKATNGFQSL 108
Db 60 AERGGHWYKES-----RLAPAGRVGRGRLEIASFLPEDAGRILCLAR---GSM 107
Qy 109 SY--NYTLVLDLISPCKESLGPDSGSGQEDPA---SQQWAPRFTOPSKRRRVIAFP 163
Db 108 IVLQNLTLITGDSLTSNDDEDPKS---HRDPSNRHSYPQOAPYWTHPORMEKLHAVP 163
Qy 164 VGSVRLKCVASGHPDPITWKKDOAL---TRPEABPRKKWTLISLKNLRPEDSGKYT 220
Db 164 AGNTVAFRCRPAAGNPTPTIRMLKDGARFGENRIGGIRLKHQMSLWMSVVPDRGTYT 223
Qy 221 CRVSNRAGAINATYKVDVIOQTRSKPVLGTHPVNTVDFFGTTSPQCKVRSDVKPIQW 280
Db 224 CLVENAVGSIIRYNILLDVLEERSPHRPILOAGLPANTTAVGSDVELLCKVYSDAQPHIQW 283
Qy 281 LKRV-----EYGAEG---RHNSTIDVGQKFVLPFGDVMSRPDGSY 319
Db 284 LKHIVINGSSFGAVGFPYVQVLKTADINSSEVEVLYLRNVSADAGEY 331

```

Search completed: February 2, 2005, 18:26:28  
 Job time : 22 secs



GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: February 2, 2005, 18:16:50 ; Search time 194 Seconds  
(without alignments)  
960.935 Million cell updates/sec

Title: US-10-613-413B-8  
Perfect score: 1717  
Sequence: 1 MTPSPPLLLPLPLGAPP.....VLPTGDVWSRPGSGYINKEPL 324

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1825181 seqs, 575374646 residues  
Total number of hits satisfying chosen parameters: 1825181

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database: UniProt 02.\*  
1: uniprot\_sprot.\*  
2: uniprot\_trembl.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1707	99.4	497	Q9BXN7	Q9BXN7 homo sapien
2	1707	99.4	504	Q8N441	Q8N441 homo sapien
3	1707	99.4	504	Q9H4D7	Q9H4D7 homo sapien
4	1707	99.4	504	AAQ8670	AAQ8670 homo sapi
5	1561	90.9	529	Q7TOM3	Q7TOM3 rattus norv
6	1560	90.9	529	Q91V87	Q91V87 mus musculu
7	1560	90.9	529	AAH58745	AAH58745 mus muscu
8	1553	90.4	440	Q6ZMD4	Q6ZMD4 homo sapien
9	1553	90.4	440	BAD18794	BAD18794 homo sapi
10	1507	87.8	509	Q920C2	Q920C2 mus musculu
11	1306	76.1	487	Q7T2H2	Q7T2H2 gallus galli
12	1193.5	69.5	483	Q7SX76	Q7SX76 brachydantio
13	1035.5	60.3	438	Q920C3	Q920C3 mus musculu
14	894	52.1	350	Q6PJN1	Q6PJN1 homo sapien
15	894	52.1	350	AAH13955	AAH13955 homo sapi
16	425.5	24.8	812	FGRL_XENMLA	FGRL_XENMLA
17	424.5	24.7	814	Q91873	Q91873 brachydantio
18	424.5	24.7	814	Q91897	Q91897 xenopus lae
19	423.5	24.7	810	Q9PS96	Q9PS96 xenopus lae
20	422	24.6	822	Q91288	Q91288 pleurodeles
21	415.5	24.2	802	Q42127	Q42127 xenopus lae
22	413	24.1	827	Q6GNS5	Q6GNS5 xenopus lae
23	409	23.8	800	Q99052	Q99052 mus musculu
24	408.5	23.8	800	Q7TS18	Q7TS18 mus musculu
25	408.5	23.8	801	FGR3_MOUSE	FGR3_MOUSE
26	399.5	23.3	796	Q91287	Q91287 pleurodeles
27	399.5	23.3	802	Q95M13	Q95M13 bos taurus
28	398	23.2	370	Q800Y8	Q800Y8 brachydantio
29	398	23.0	370	Q9JHX9	Q9JHX9 rattus norv
30	394.5	23.0	771	Q8N116	Q8N116 homo sapien
31	393.5	22.9	806	CEK2_CHICK	CEK2_CHICK

32	393	22.9	806	1	FGR3_HUMAN	P22607 homo sapien
33	392.5	22.9	446	2	Q63236	Q63236 rattus norv
34	392.5	22.9	819	1	FGRL_CHICK	P21804 gallus galli
35	392	22.8	692	2	Q800Y9	Q800Y9 brachydantio
36	392	22.8	756	2	Q800Z0	Q800Z0 brachydantio
37	392	22.8	804	2	Q800Z1	Q800Z1 brachydantio
38	392	22.8	806	2	Q90200	Q90200 brachydantio
39	389.5	22.7	769	2	Q8N115	Q8N115 homo sapien
40	389.5	22.7	822	2	Q9QV77	Q9QV77 rattus norv
41	388.5	22.6	446	2	Q63237	Q63237 rattus norv
42	387.5	22.6	807	2	Q6DD66	Q6DD66 xenopus lae
43	387.5	22.6	818	2	Q9PSV9	Q9PSV9 xenopus lae
44	387.5	22.6	828	2	Q9DCK3	Q9DCK3 xenopus lae
45	387	22.5	815	2	Q805B9	Q805B9 brachydantio

## ALIGNMENTS

### RESULT 1

ID	Q9BXN7	PRELIMINARY;	PRT;	497 AA.
AC	Q9BXN7			
DT	01-JUN-2001 (T-EMBLrel. 17, Created)			
DT	01-JUN-2001 (T-EMBLrel. 17, last sequence update)			
DT	01-OCT-2003 (T-EMBLrel. 25, last annotation update)			
DE	FGF homologous factor receptor.			
GN	Name=FGFR;			
OS	Homo sapiens (Human).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.			
OX	NCBI_TaxID=9606;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RA	Aggarwal S., Xie M.-H., Foster J., Frantz G., Stinson J., Corpuz R.T.,			
RA	Simmons L., Hillan K., Yansura D.G., Vandlen R.L., Goddard A.D.,			
RA	Gurney A.L.;			
RU	Submitted (OCT-2000) to the EMBL/GenBank/DBJ databases.			
DR	EMBL; AF12678; AAK15273.1; -.			
DR	HSSP; P1362; 1EVT.			
DR	GO; GO:004872; F:receptor activity; IEA.			
DR	InterPro; IPR007110; IG_1ike.			
DR	InterPro; IPR003598; IG_C2.			
DR	Pfam; PF00047; 1g_3.			
DR	SMART; SM00408; 1Gc2; 2.			
DR	PROSITE; PS50835; 1G_1ike; 3.			
KW	Receptor.			
SQ	SEQUENCE 497 AA; 53757 MW; 57301FAF36357360 CRC64;			

Query Match 99.4%; Score 1707; DB 2; Length 497;  
Best Local Similarity 99.7%; Pred. No. 9.1e-124;  
Matches 323; Conserved 1; Indels 0; Gaps 0;

QY	1	MTSPSPPLLLPLPLGAPPAAAGRPKMAKVPVROVARIKRTVRLCCPVGGDPPPL 60
DB	1	MTSPSPPLLLPLPLGAPPAAAGRPKMAKVPVROVARIKRTVRLCCPVGGDPPPL 60
QY	61	TMWTKDRTIHSGMSRRFVLPGILKQVEREDAGVYVCAATNGFGLSVNVTILVLDI 120
DB	61	TMWTKDRTIHSGMSRRFVLPGILKQVEREDAGVYVCAATNGFGLSVNVTILVLDI 120
QY	121	SPGKESIGPPSSSGGQDPASQOMARPFQPSKRRRVIAAPVGSVRLKCVASGHPRP 180
DB	121	SPGKESIGPPSSSGGQDPASQOMARPFQPSKRRRVIAAPVGSVRLKCVASGHPRP 180
QY	181	DITMKDDQALTRPEALPRKKKWTLSIKNLRPEDSKYTCRVSNRGAINATYKVIVQ 240
DB	181	DITMKDDQALTRPEALPRKKKWTLSIKNLRPEDSKYTCRVSNRGAINATYKVIVQ 240
QY	241	RTSRKPVLTGTHPVNTVDGTTSPCKVRSVYIOWIKRVEYGAEGHNSITIVG 300
DB	241	RTSRKPVLTGTHPVNTVDGTTSPCKVRSVYIOWIKRVEYGAEGHNSITIVG 300

```

QY      301 QKRVVLPFGDVWSRPDGSYLNKPL 324
Db      301 QKRVVLPFGDVWSRPDGSYLNKPL 324

RESULT 2
ID      08N441      PRELIMINARY;      PRT;      504 AA.
AC      08N441;
DT      01-OCT-2002 (T-EMBLrel. 22, Created)
DT      01-OCT-2002 (T-EMBLrel. 22, Last sequence update)
DE      01-OCT-2004 (T-EMBLrel. 28, Last annotation update)
DE      Fibroblast growth factor receptor-like 1, (FGFR1).
GN      Name=FGFR1; ORFNames=UNQ480;
OS      Homo sapiens (Human).
OC      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC      Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX      NCBI_TaxID=9606;
RN      (1)
RP      SEQUENCE FROM N.A.
RC      MEDLINE=22388257; PubMed=12477932;
RA      Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA      Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA      Altschul S.F., Zeeberg B., Buetow K.H., Scheaffer C.F., Bhat N.K.,
RA      Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA      Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA      Stapleton M.J., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA      Brownstein M.J., Ustin T.B., Toshiyuki S., Carninci P., Prange C.,
RA      Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullen S.J.,
RA      Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA      Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA      Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA      Fahy J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,
RA      Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA      Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA      Rodriguez A.C., Richmond J., Schmutz J., Myers R.M., Butlerfield Y.S.,
RA      Krzyminski M.I., Skalska U., Smalins D.E., Scherch A., Schein J.E.,
RA      Jones S.J., Marra M.A.;
RT      "Generation and initial analysis of more than 15,000 full-length human
RT      and mouse cDNA sequences."
RL      Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN      (2)
RP      SEQUENCE FROM N.A.
RC      TISSUE=Brain;
RA      Strausberg R.;
RL      Submitted (Aug-2002) to the EMBL/GenBank/DBJ databases.
RN      (3)
RP      SEQUENCE FROM N.A.
RX      MEDLINE=22887296; PubMed=12975309;
RA      Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D., Brush J.,
RA      Chen J., Chow B., Chui C., Crowley C., Currell B., Denel B., Dowd P.,
RA      Eaton D., Foster J., Grimaldi C., Gu Q., Hase P.E., Heldens S.,
RA      Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,
RA      Lewis L., Liao D., Mark M., Robble E., Sanchez C., Schoenfeld J.,
RA      Seshagiri S., Simmons L., Singh J., Smith V., Stinson U., Vagts A.,
RA      Vanden R., Watanabe C., Wiand D., Woods K., Xie M.H., Yamasu D.,
RA      Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,
RA      Godowski P.;
RT      "The secreted protein discovery initiative (SPDI), a large-scale
RT      effort to identify novel human secreted and transmembrane proteins: a
RT      bioinformatics assessment."
RL      Genome Res. 13:2265-2270(2003).
DR      EMBL; BC036769; AAH36769.1; -.
DR      EMBL; AY358303; AA088670.1; -.
DR      HSSP; P13362; IEVT.
DR      Genew; HGNC:3693; FGFR1.
DR      GO; GO:0004872; F:receptor activity; IEA.
DR      InterPro; IPR007110; Ig-like.
DR      Pfam; PF00047; Ig_3.
DR      PROSITE; PS50835; Ig_LIKE; 3.
DR      Receptor.
SQ      SEQUENCE 504 AA; 54536 MW; 56B35E57D5FC1A1B CRC64;

```

```

Query Match      99.4%; Score 1707; DB 2; Length 504;
Best Local Similarity 99.7%; Pred. No. 9,2e-124;
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 MTPSPULLLLPPLLGAFPPAAARGPBKADKVPVQVARGTVRLQCVBEGDPPPL 60
Db      1 MTPSPULLLLPPLLGAFPPAAARGPBKADKVPVQVARGTVRLQCVBEGDPPPL 60
QY      61 TMTWTDGRTTHSGWRFRLPGGLKVQVERDQVVCANNGSGSLVNTLVLDI 120
Db      61 TMTWTDGRTTHSGWRFRLPGGLKVQVERDQVVCANNGSGSLVNTLVLDI 120
QY      61 TMTWTDGRTTHSGWRFRLPGGLKVQVERDQVVCANNGSGSLVNTLVLDI 120
Db      61 TMTWTDGRTTHSGWRFRLPGGLKVQVERDQVVCANNGSGSLVNTLVLDI 120
QY      121 SPKGSLSGPDSSSGGQEDPASQOWARPRFTQPSKMRVRIAPVGSVRLKCVASGHPRP 180
Db      121 SPKGSLSGPDSSSGGQEDPASQOWARPRFTQPSKMRVRIAPVGSVRLKCVASGHPRP 180
QY      121 SPKGSLSGPDSSSGGQEDPASQOWARPRFTQPSKMRVRIAPVGSVRLKCVASGHPRP 180
Db      121 SPKGSLSGPDSSSGGQEDPASQOWARPRFTQPSKMRVRIAPVGSVRLKCVASGHPRP 180
QY      181 DITWKKDDQALTRPAAEPKRRKWTLSLKNLRPEDSGKYTCVSRAGAINATYRVDIQ 240
Db      181 DITWKKDDQALTRPAAEPKRRKWTLSLKNLRPEDSGKYTCVSRAGAINATYRVDIQ 240
QY      181 DITWKKDDQALTRPAAEPKRRKWTLSLKNLRPEDSGKYTCVSRAGAINATYRVDIQ 240
Db      181 DITWKKDDQALTRPAAEPKRRKWTLSLKNLRPEDSGKYTCVSRAGAINATYRVDIQ 240
QY      241 RTRSKPVLTGHPVNTVDGFTSFQCKVRSQVDPVQMLKRVYGAEGRRHSTIDVG 300
Db      241 RTRSKPVLTGHPVNTVDGFTSFQCKVRSQVDPVQMLKRVYGAEGRRHSTIDVG 300
QY      241 RTRSKPVLTGHPVNTVDGFTSFQCKVRSQVDPVQMLKRVYGAEGRRHSTIDVG 300
Db      241 RTRSKPVLTGHPVNTVDGFTSFQCKVRSQVDPVQMLKRVYGAEGRRHSTIDVG 300
QY      301 QKRVVLPFGDVWSRPDGSYLNKPL 324
Db      301 QKRVVLPFGDVWSRPDGSYLNKPL 324
QY      301 QKRVVLPFGDVWSRPDGSYLNKPL 324
Db      301 QKRVVLPFGDVWSRPDGSYLNKPL 324

RESULT 3
ID      09H4D7      PRELIMINARY;      PRT;      504 AA.
AC      09H4D7;
DT      01-MAR-2001 (T-EMBLrel. 16, Created)
DT      01-MAR-2001 (T-EMBLrel. 16, Last sequence update)
DE      05-JUL-2004 (T-EMBLrel. 27, Last annotation update)
DE      FGFR-like protein precursor (Fibroblast growth factor receptor
DE      5).
GN      Name=FGFR1; Synonym=FGFR5;
OS      Homo sapiens (Human).
OC      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC      Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX      NCBI_TaxID=9606;
RN      (1)
RP      SEQUENCE FROM N.A.
RC      TISSUE=Cartilage;
RA      Wiedemann M., Trub B.;
RT      "Characterization of a novel protein (FGFR1) from human cartilage
RT      related to FGF receptors."
RL      Genomics 69:275-279(2000).
RN      (2)
RP      SEQUENCE FROM N.A.
RX      MEDLINE=21167383; PubMed=11267671;
RA      Kim I., Moon S.O., Yu K.H., Kim U.H., Koh G.Y.;
RT      "A novel fibroblast growth factor receptor-5 preferentially expressed
RT      in the pancreas."
RL      Biochim. Biophys. Acta 1518:152-156(2001).
DR      EMBL; AJ277437; CAC14171.1; -.
DR      EMBL; AF279689; AAK26742.1; -.
DR      HSSP; P13362; IEVT.
DR      GO; GO:0016021; C:integral to membrane; NAS.
DR      GO; GO:0005007; F:fibroblast growth factor receptor activity; NAS.
DR      GO; GO:0001558; P:regulation of cell growth; NAS.
DR      InterPro; IPR007110; Ig-like.
DR      InterPro; IPR003598; Ig_c2.
DR      Pfam; PF00047; Ig_3.
DR      SMART; SM00408; IGC2; 2.
DR      PROSITE; PS50835; Ig_LIKE; 3.
DR      Receptor; Signal.
DR      Receptor.
SQ      SEQUENCE 504 AA; 54567 MW; 16382B57D4276485 CRC64;

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Query Match 99.4%; Score 1707; DB 2; Length 504;  
Best Local Similarity 99.7%; Pred. No. 9.2e-124;  
Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 1 MTPSPULLLLPPLLLGAFPPAAARPPKMDKVVPRQVRLGRTVRLQCPVEGDPPL 60
DB 1 MTPSPULLLLPPLLLGAFPPAAARPPKMDKVVPRQVRLGRTVRLQCPVEGDPPL 60
QY 61 TMMTKDGRTHSGMSRFRVLPGGLKVKOVEREDAGVYVCATNGFGSLSVNYTLVLDI 120
DB 61 TMMTKDGRTHSGMSRFRVLPGGLKVKOVEREDAGVYVCATNGFGSLSVNYTLVLDI 120
QY 121 SPKESLGPSSSGGQEDPASQOMARPRFTQPSKMRRIYARPVSSSVRLKCVASGHRP 180
DB 121 SPKESLGPSSSGGQEDPASQOMARPRFTQPSKMRRIYARPVSSSVRLKCVASGHRP 180
QY 181 DITWMDQALTRPEAAERPKKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVVDIQ 240
DB 181 DITWMDQALTRPEAAERPKKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVVDIQ 240
QY 241 RTRSKPVLGTGHPVNTTVDFGTTSFQCKVRSVYQVIMLKREYGAEGRNSTIDVG 300
DB 241 RTRSKPVLGTGHPVNTTVDFGTTSFQCKVRSVYQVIMLKREYGAEGRNSTIDVG 300
QY 301 OKFVLPPTGDVMSRPDGSYLKPL 324
DB 301 OKFVLPPTGDVMSRPDGSYLKPL 324
```

## RESULT 4

```
AAQ88670 PRELIMINARY; PRT; 504 AA.
AC AAQ88670.
DT 02-MAR-2004 (TREMBlrel. 27, Created)
DT 02-MAR-2004 (TREMBlrel. 27, Last sequence update)
DT 02-MAR-2004 (TREMBlrel. 27, Last annotation update)
DE FGFRLL.
GN UNQ0480.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primata; Catarrhini; Homiidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX PubMed=12975309;
RA Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D., Brush J.,
RA Chen J., Chow B., Chui C., Crowley C., Currell B., Denel B., Dowd P.,
RA Eaton D., Foster J., Grimaldi C., Gu Q., Hase P.E., Helens S.,
RA Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,
RA Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J.,
RA Sehnagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagstad A.,
RA Vanden R., Watanabe C., Wleand D., Woods K., Xie M.H., Yamasura D.,
RA Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood M.L.,
RA Godowski P.;
RT "The Secreted Protein Discovery Initiative (SPDI), a Large-Scale
RT Effort to Identify Novel Human Secreted and Transmembrane Proteins: A
RT Bioinformatics Assessment.";
RL Genome Res. 13:2265-2270(2003).
DR EMBL; AY583033; AAQ88670.1; -.
SQ SEQUENCE 504 AA; 54536 MW; 56B35E57D5FC141B CRC64;
```

Query Match 99.4%; Score 1707; DB 2; Length 504;

Best Local Similarity 99.7%; Pred. No. 9.2e-124; Indels 0; Gaps 0;

Matches 323; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
QY 1 MTPSPULLLLPPLLLGAFPPAAARPPKMDKVVPRQVRLGRTVRLQCPVEGDPPL 60
DB 1 MTPSPULLLLPPLLLGAFPPAAARPPKMDKVVPRQVRLGRTVRLQCPVEGDPPL 60
QY 61 TMMTKDGRTHSGMSRFRVLPGGLKVKOVEREDAGVYVCATNGFGSLSVNYTLVLDI 120
DB 61 TMMTKDGRTHSGMSRFRVLPGGLKVKOVEREDAGVYVCATNGFGSLSVNYTLVLDI 120
```

```
QY 121 SPKESLGPSSSGGQEDPASQOMARPRFTQPSKMRRIYARPVSSSVRLKCVASGHRP 180
DB 121 SPKESLGPSSSGGQEDPASQOMARPRFTQPSKMRRIYARPVSSSVRLKCVASGHRP 180
QY 181 DITWMDQALTRPEAAERPKKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVVDIQ 240
DB 181 DITWMDQALTRPEAAERPKKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVVDIQ 240
QY 241 RTRSKPVLGTGHPVNTTVDFGTTSFQCKVRSVYQVIMLKREYGAEGRNSTIDVG 300
DB 241 RTRSKPVLGTGHPVNTTVDFGTTSFQCKVRSVYQVIMLKREYGAEGRNSTIDVG 300
QY 301 OKFVLPPTGDVMSRPDGSYLKPL 324
DB 301 OKFVLPPTGDVMSRPDGSYLKPL 324
```

## RESULT 5

```
Q7TQM3 PRELIMINARY; PRT; 529 AA.
AC Q7TQM3.
DT 01-OCT-2003 (TREMBlrel. 25, Created)
DT 01-OCT-2003 (TREMBlrel. 25, Last sequence update)
DT 01-MAR-2004 (TREMBlrel. 26, Last annotation update)
DE Fibroblast growth factor receptor-like protein precursor.
GN Name=fgfr1l;
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RX STRAIN=Sprague-Dawley;
RC PubMed=12813049;
RA True B., Zhuang L., Taeschler S., Wiedemann M.;
RT "Characterization of FGFR1, a Novel FGF receptor preferentially
RT expressed in skeletal tissues.";
RL J. Biol. Chem. 278:33857-33865(2003).
DR EMBL; AJ536020; CAD59914.1; -.
DR GO; GO:0004872; F:receptor activity; IEA.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003598; IG_c2.
DR Pfam; PF00047; Ig_3.
DR SMART; SM00408; IgC2; 3.
DR PROSITE; PS50835; IG_LIKE; 3.
KW Receptor; Signal.
FT SIGNAL 1 20 potential.
FT CHAIN 21 529 fibroblast growth factor receptor-like
protein.
SQ SEQUENCE 529 AA; 57143 MW; 23D67B419335FFRC CRC64;
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Query Match 90.9%; Score 1561; DB 2; Length 529;  
Best Local Similarity 91.4%; Pred. No. 2e-112;  
Matches 296; Conservative 9; Mismatches 15; Indels 4; Gaps 1;

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QY 1 MTPSPULLLLPPLLLGAFPPAAARPPKMDKVVPRQVRLGRTVRLQCPVEGDPPL 60
DB 1 MTPSPULLLLPPLLLGAFPPAAARPPKMDKVVPRQVRLGRTVRLQCPVEGDPPL 60
QY 61 TMMTKDGRTHSGMSRFRVLPGGLKVKOVEREDAGVYVCATNGFGSLSVNYTLVLDI 120
DB 61 TMMTKDGRTHSGMSRFRVLPGGLKVKOVEREDAGVYVCATNGFGSLSVNYTLVLDI 120
QY 121 SPKESLGPSSSGGQEDPASQOMARPRFTQPSKMRRIYARPVSSSVRLKCVASGHRP 180
DB 121 SPKESLGPSSSGGQEDPASQOMARPRFTQPSKMRRIYARPVSSSVRLKCVASGHRP 180
QY 181 DITWMDQALTRPEAAERPKKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVVDIQ 240
DB 181 DITWMDQALTRPEAAERPKKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVVDIQ 240
QY 241 RTRSKPVLGTGHPVNTTVDFGTTSFQCKVRSVYQVIMLKREYGAEGRNSTIDVG 300
DB 241 RTRSKPVLGTGHPVNTTVDFGTTSFQCKVRSVYQVIMLKREYGAEGRNSTIDVG 300
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DB 237 RFRSKVPLTGHPTVNTTVDFFGTTSTQCKVRSDVKVIOQLMKRVEXGSGRHNSTIDVGG 296
QY 301 QKRVVLPFGDWSRPPGSLYNKPL 324
DB 297 QKRVVLPFGDWSRPPGSLYNKPL 320

RESULT 6
QY1V87 PRELIMINARY; PRT; 529 AA.
ID QY1V87
AC QY1V87;
DT 01-DEC-2001 (TREMBLrel. 19, Created)
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DT 01-OCT-2004 (TREMBLrel. 28, Last annotation update)
DE Fibroblast growth factor receptor 5 beta precursor (FGF receptor-like 1).
DE protein 1 precursor (Fibroblast growth factor receptor-like 1).
GN Name=FGFrl1; Synonyms=FGFRL1, Fgf15;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN (1)
RP SEQUENCE FROM N.A.
RC STRAIN=BALB/cj;
RX MEDLINE=21311632; PubMed=11418238;
RA Sleeman M., Fraser J., McDonald M., Yuan S., White D., Grandison P.,
RT Kumble K., Watson J.D., Morrison J.G.,
RL "Identification of a new fibroblast growth factor receptor, FGFrs.";
RT Gene 271:171-182(2001).
RN (2)
RP SEQUENCE FROM N.A.
RC STRAIN=BALB/cj;
RX Sleeman M.A., Fraser J.K., Watson J.D., Kumble K.D., Morrison J.G.;
RL Submitted (Nov-2000) to the EMBL/GenBank/DBJ databases.
RN (3)
RP SEQUENCE FROM N.A.
RC TISSUE=Cartilage;
RX MEDLINE=21450304; PubMed=11566361;
RA Wiedemann M., Trub B.;
RT "The mouse Fgf11 gene coding for a novel FGF receptor-like protein.";
RL Biochim. Biophys. Acta 1520:247-250(2001).
RN (4)
RP SEQUENCE FROM N.A.
RC STRAIN=BALB/cj; TISSUE=Liver;
RX PubMed=11031111;
RA Wiedemann M., Trub B.;
RT "Characterization of a novel protein (FGFRL1) from human cartilage
RT related to FGF receptors.";
RL Genomics 69:275-279(2000).
RN (5)
RP SEQUENCE FROM N.A.
RC STRAIN=BALB/cj; TISSUE=Liver;
RX Wiedemann M., Trub B.;
RL Submitted (DEC-2002) to the EMBL/GenBank/DBJ databases.
RN (6)
RP SEQUENCE FROM N.A.
RC STRAIN=FVB/N-3;
RX TISSUE=Mammary tumor. MMTV-LTR/INT3 model. 5 month old mouse. Taken by
RC biopsy.
RX MEDLINE=22388257; PubMed=12477932;
RA Klausner R.D., Collins F.S., Wagner L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L.H., Shennen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Wax S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M.J., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Uedon T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Locquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Murny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettelman M., Madan A., Rodrigues S., Sanchez A.,

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RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodrigues A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalska U., Smallus D.E., Scherch A., Schein J.E.,
RA Jones S.J., Maira M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN (7)
RP SEQUENCE FROM N.A.
RC STRAIN=FVB/N-3;
RC TISSUE=Mammary tumor. MMTV-LTR/INT3 model. 5 month old mouse. Taken by
RC biopsy.
RA Strausberg R.;
RL Submitted (SEP-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF213300; AA06295.1; -
DR EMBL; AJ293947; CAC82376.1; -
DR EMBL; AJ308490; CAC81768.1; -
DR EMBL; BC058745; AAH58745.1; -
DR HSSP; P11362; IEVT.
DR MGD; MGI:2150920; Fgf11.
DR GO; GO:0005886; Cytoplasm membrane; IDA.
DR GO; GO:0005515; F:protein binding; IPI.
DR GO; GO:0008285; P:negative regulation of cell proliferation; IDA.
DR InterPro; IPR007110; IG-like.
DR Pfam; PF00047; IG_3.
DR PROSITE; PS00835; IG_LIKE; 3.
FT SIGNAL 1 20 Potential.
FT CHAIN 21 529 fibroblast growth factor receptor 5 beta.
SQ SEQUENCE 529 AA; 57013 MW; 6CE76A75BF2498DD CRC64;

Query Match 90.9%; Score 1560; DB 2; Length 529;
Best Local Similarity 91.4%; Pred. No. 2.4e-112;
Matches 296; Conservative 9; Mismatches 15; Indels 4; Gaps 1;

QY 1 MTPSPLLLLPPLLLGAPPPAAARGPVKADKVPVQVRLGRTVLQCPVEGDPPL 60
DB 1 MTRSPALLL-----LILGLALPSAARGPVRMADKVPVQVRLGRTVLQCPVEGDPPL 56
QY 61 TMTWTDGRTIHSGMRRFVLPGLKVKOVEREDAVYVCKATNGSGISLVNTTVLVLDI 120
DB 57 TMTWTDGRTIHSGMRRFVLPGLKVKOVEREDAVYVCKATNGSGISLVNTTVLVLDI 116
QY 121 SPKESLGGPSSGGQEDPASQOMARPPPTOPSKKRRVIRAPVSSVRLKVCASGHP 180
DB 117 SPKESPGGSSGGQEDPASQOMARPPPTOPSKKRRVIRAPVSSVRLKVCASGHP 176
QY 181 DITWKKDQALTRPAABRKKKWTLSLKNLRPEDSGKYTCVSNRAGAINATYRVYIQ 240
DB 177 DITWKKDQALTRPAABRKKKWTLSLKNLRPEDSGKYTCVSNRAGAINATYRVYIQ 236
QY 241 RFRSKVPLTGHPTVNTTVDFFGTTSTQCKVRSDVKVIOQLMKRVEXGSGRHNSTIDVGG 300
DB 237 RFRSKVPLTGHPTVNTTVDFFGTTSTQCKVRSDVKVIOQLMKRVEXGSGRHNSTIDVGG 296
QY 301 QKRVVLPFGDWSRPPGSLYNKPL 324
DB 297 QKRVVLPFGDWSRPPGSLYNKPL 320

RESULT 7
AAH58745 PRELIMINARY; PRT; 529 AA.
ID AAH58745
AC AAH58745;
DT 02-MAR-2004 (TREMBLrel. 27, Created)
DT 02-MAR-2004 (TREMBLrel. 27, Last sequence update)
DT 02-MAR-2004 (TREMBLrel. 27, Last annotation update)
DE Fibroblast growth factor receptor-like 1.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;

```

RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=FVB/N-3; TISSUE=Mammary tumor;  
 RX MEDLINE=22388257; PubMed12477932;  
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,  
 RA Klausner R.D., Collins F.S., Wagner L., Schmeien C.M., Schuler G.D.,  
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,  
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heien F.,  
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,  
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,  
 RA Brownstein M.J., Uesdin T.B., Toehiyuki S., Carninci P., Prange C.,  
 RA Raha S.S., Loquellano N.A., Peters G.D., Abramson R.D., Millaby S.J.,  
 RA Bosak S.A., McSwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,  
 RA Richards S., Morley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,  
 RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,  
 RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,  
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,  
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,  
 RA Rodriguez A.C., Gilmwood J., Schmutz J., Myers R.W., Butterfield Y.S.,  
 RA Krzywinski M.I., Skalak U., Smallos D.E., Schnerch A., Schein J.E.,  
 RA Jones S.J., Marra M.A.;  
 RT "Generation and initial analysis of more than 15,000 full-length human  
 RT and mouse cDNA sequences";  
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=FVB/N-3; TISSUE=Mammary tumor;  
 RA Strausberg R.;  
 RA Submitted (SEP-2003) to the EMBL/GenBank/DBJ databases.  
 DR EMBL; BC058745; AAH58745.1; -.  
 KW Receptor.  
 SQ SEQUENCE 529 AA; 57013 MW; 6CE76A75BF2498DD CRC64;  
 Query Match 90.9%; Score 1560; DB 2; Length 529;  
 Best Local Similarity 91.4%; Pred. No. 2.4e-112; Indels 4; Gaps 1;  
 Matches 296; Conservative 9; Mismatches 15;  
 QY 1 MTSPPLLLLLPRLLLGAPPPAAARGPVKMADKVRQVARYLGRITVRLQCPVEGDPPPL 60  
 Db 1 MTSPPLLL-----LLLGALPSAARARPPRMADKVRQVARYLGRITVRLQCPVEGDPPPL 56  
 QY 61 TMTTKDGRTHSGMRRFVLPQGLKVKQVREDAVVYVCAATNGFGLSTNVTTLVVDI 120  
 Db 57 TMTTKDGRTHSGMRRFVLPQGLKVKVEADAAGVYVCAATNGFGLSTNVTTLIMDDI 116  
 QY 121 SPKESFGPSSSGCGEDPASQOMARPRFTOPSKRRRVILARPVSSSVRLKCVASGHRP 180  
 Db 117 SPKESFGPSSSGCGEDPASQOMARPRFTOPSKRRRVILARPVSSSVRLKCVASGHRP 176  
 QY 181 DITWMDQALTRPEAAEPKPKKWTLSLKNLRPEDSGKYTCRVSNRAGAINATYKVDVIQ 240  
 Db 177 DITWMDQDLTLTHLASEHKKKWTLSLKNLRPEDSGKYTCRVSNKAGAINATYKVDVIQ 236  
 QY 241 RTRSKPVLTGHPVNTTVDFGGTTSFQCKVASDVYVYQMLKRYEAGEGHNSTIVVG 300  
 Db 237 RTRSKPVLTGHPVNTTVDFGGTTSFQCKVASDVYVYQMLKRYEAGEGHNSTIVVG 296  
 QY 301 OKFVVLPTGVDVSRPDGSYLNKPL 324  
 Db 297 OKFVVLPTGVDVSRPDGSYLNKPL 320  
 RESULT 8  
 Q6ZMD4 PRELIMINARY; PRT; 440 AA.  
 AC Q6ZMD4  
 DT 05-JUL-2004 (TREMBlrel. 27, Created)  
 DT 05-JUL-2004 (TREMBlrel. 27, Last sequence update)  
 DT 05-JUL-2004 (TREMBlrel. 27, Last annotation update)  
 DE Hypothetical protein FLJ23990.  
 OS Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

OX NCBI\_TaxID=9606;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Kawabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto S.,  
 RA Okitani R., Ota T., Suzuki Y., Obayashi M., Nishi T., Shibahara T.,  
 RA Tanaka T., Nakamura Y., Isogai T., Sugano S.;  
 RL Submitted (APR-2004) to the EMBL/GenBank/DBJ databases.  
 DR EMBL; AK172829; BAD18794.1; -.  
 DR GO; GO:004872; P.receptor activity; IEA.  
 DR InterPro; IPR003599; 19.  
 DR InterPro; IPR007110; 19-like.  
 DR InterPro; IPR003598; 19\_c2.  
 DR Pfam; PR00047; 19\_3.  
 DR SMART; SM00409; 19\_3.  
 DR SMART; SM00408; 19c2; 3.  
 DR PROSITE; PS50835; 19\_LIKE; 3.  
 DR Receptor.  
 KW Receptor.  
 SQ SEQUENCE 440 AA; 47587 MW; 2B6E0C2285AC3B59 CRC64;  
 Query Match 90.4%; Score 1553; DB 2; Length 440;  
 Best Local Similarity 99.7%; Pred. No. 6.6e-112; Indels 0; Gaps 0;  
 Matches 293; Conservative 0; Mismatches 1;  
 QY 31 MADKVPROYARLGRITVRLQCPVEGDPPPLTMTKDGRTTHSGMRRFVLPQGLKVKQYE 90  
 Db 1 MADKVPROYARLGRITVRLQCPVEGDPPPLTMTKDGRTTHSGMRRFVLPQGLKVKQYE 60  
 QY 91 REDAGYVVCATNGFGLSTNVTTLVVDISPKESLGFDSGCGEDPASQOMARPRFT 150  
 Db 61 REDAGYVVCATNGFGLSTNVTTLVVDISPKESLGFDSGCGEDPASQOMARPRFT 120  
 QY 151 QPSKMRRTVAPRVSSVRLKCVASGHRPDLTWMMDQALTRPEAAEPKPKKWTLSLN 210  
 Db 121 QPSKMRRTVAPRVSSVRLKCVASGHRPDLTWMMDQALTRPEAAEPKPKKWTLSLN 180  
 QY 211 LRPEDSGKYTCRVSNRAGAINATYKVDVIQRTSKFVLTGHPVNTTVDFGGTTSFQCKV 270  
 Db 181 LRPEDSGKYTCRVSNRAGAINATYKVDVIQRTSKFVLTGHPVNTTVDFGGTTSFQCKV 240  
 QY 271 RSDVKPVYQMLKRYEAGEGHNSTIVDGQCKRVVLPDGVWSRPPGSIYNKPL 324  
 Db 241 RSDVKPVYQMLKRYEAGEGHNSTIVDGQCKRVVLPDGVWSRPPGSIYNKPL 294  
 RESULT 9  
 BAD18794 PRELIMINARY; PRT; 440 AA.  
 ID BAD18794  
 AC BAD18794  
 DT 12-MAY-2004 (TREMBlrel. 27, Created)  
 DT 12-MAY-2004 (TREMBlrel. 27, Last sequence update)  
 DE cDNA FLJ23990 fls. clone HRC08053, highly similar to Homo sapiens  
 DE fibroblast growth factor receptor-like 1 (FGFR1).  
 OS Homo sapiens (Human).  
 OC Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.  
 OX NCBI\_TaxID=9606;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Kawabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto S.,  
 RA Okitani R., Ota T., Suzuki Y., Obayashi M., Nishi T., Shibahara T.,  
 RA Tanaka T., Nakamura Y., Isogai T., Sugano S.;  
 RL "NEDO human cDNA sequencing project";  
 RL Submitted (APR-2004) to the EMBL/GenBank/DBJ databases.  
 DR EMBL; AK172829; BAD18794.1; -.  
 KW Receptor.  
 SQ SEQUENCE 440 AA; 47587 MW; 2B6E0C2285AC3B59 CRC64;  
 Query Match 90.4%; Score 1553; DB 2; Length 440;  
 Best Local Similarity 99.7%; Pred. No. 6.6e-112; Indels 0; Gaps 0;  
 Matches 293; Conservative 0; Mismatches 1;  
 QY 31 MADKVPROYARLGRITVRLQCPVEGDPPPLTMTKDGRTTHSGMRRFVLPQGLKVKQYE 90

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Db      1 MADKVPQVAVRLGRIVRLQCPVEGDPPLITMTWKDGRITTHSGMSFRVLPGQLKVKQYE 60
QY      91 REDAGYVYCKATNGFSGLSVNTYLVLDLISPKESLGPDSGGGDEPDASQOMARPRRT 150
Db      61 REDAGYVYCKATNGFSGLSVNTYLVLDLISPKESLGPDSGGGDEPDASQOMARPRRT 120
QY      151 OPSKMRRIYARPVGSSVRLKCVASGHPRPDITMMKDDOALTRPEAAERKKMTLSLN 210
Db      121 QPSKMRRIYARPVGSSVRLKCVASGHPRPDITMMKDDOALTRPEAAERKKMTLSLN 180
QY      211 LRPEDSGKTYTCRVSNRAGAINATYKVDVIQRTSRKPVLTGTHPVNTTVDPGGTTSFQCKY 270
Db      181 LRPEDSGKTYTCRVSNRAGAINATYKVDVIQRTSRKPVLTGTHPVNTTVDPGGTTSFQCKY 240
QY      271 RSDVKKVIOMLKRVYEGAGGRHNSITIDVGQKFVVLPTGDVWSRPDGSYLKRL 324
Db      241 RSDVKKVIOMLKRVYEGAGGRHNSITIDVGQKFVVLPTGDVWSRPDGSYLKRL 294

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RESULT 10
ID      0920C2      PRELIMINARY;      PRT;      509 AA.
AC      0920C2;
DT      01-DEC-2001 (TREMBLrel. 19, Created)
DT      01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DE      01-MAR-2004 (TREMBLrel. 26, Last annotation update)
DE      Fibroblast growth factor receptor 5 beta/gamma (Fragment).
GN      Name=Fgfr1; Synonym=Fgfr15;
OS      Mus musculus (Mouse).
OC      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC      Mammalia; Eutheria; Rodentia; Sciurognathu; Muridae; Murinae; Mus.
OX      NCBI_TaxID=10090;
RN      [1]
RP      SEQUENCE FROM N.A.
RC      STRAIN=BALB/cJ;
RX      MEDLINE=2131632; PubMed=11418238;
RA      Sleeman M., Fraser J., McDonald M., Yuan S., White D., Grandison P.,
RA      Kumble K., Watson J.D., Murison J.G.;
RT      Identification of a new fibroblast growth factor receptor, FGFR5.;
RL      Gene 271:171-182(2001).
RN      [2]
RP      SEQUENCE FROM N.A.
RC      STRAIN=BALB/cJ;
RA      Sleeman M.A., Fraser J.K., McDonald M., Yuan S., White D.,
RA      Grandison P., Kumble K.D., Watson J.D., Murison J.G.;
RL      Submitted (NOV-2000) to the EMBL/GenBank/DBJ databases.
DR      EMBL; AF323302; AAL06297.1; -.
DR      HSSP; P11362; 1EVT.
DR      MGD; MGI:2150920; FgfR11.
DR      GO; GO:0005886; C:plasma membrane; IDA.
DR      GO; GO:0005515; F:protein binding; IPT.
DR      GO; GO:0008285; P:negative regulation of cell proliferation; IDA.
DR      InterPro; IPR007110; Ig_Like.
DR      Pfam; PF00047; Ig_3.
DR      SMART; SM00408; IGC2; 3.
DR      PROSITE; PS00835; IG_Like; 3.
KW      Receptor.
FT      NON_TER      1
FT      CHAIN      <1 509      fibroblast growth factor receptor 5 beta.
FT      CHAIN      <1 509      fibroblast growth factor receptor 5
FT      FT      gamma.
SQ      SEQUENCE      509 AA; 54994 MW; 392A7D9568899C15 CRC64;

Query Match      87.8%; Score 1507; DB 2; Length 509;
Best Local Similarity 93.7%; Pred. No. 2.9e-108;
Matches 281; Conservative 9; Mismatches 10; Indels 0; Gaps 0;

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QY      85 KYKQVEDAGYVYCKATNGFSGLSVNTYLVLDLISPKESLGPDSGGGDEPDASQOM 144
Db      61 KYKEVEDAGYVYCKATNGFSGLSVNTYLVLDLISPKESLGPDSGGGDEPDASQOM 120
QY      145 AARFTQPSKMRRIYARPVGSSVRLKCVASGHPRPDITMMKDDOALTRPEAAERKKMW 204
Db      121 AARFTQPSKMRRIYARPVGSSVRLKCVASGHPRPDITMMKDDOALTRPEAAERKKMW 180
QY      205 TISLKNLRPEDSGKTYTCRVSNRAGAINATYKVDVIQRTSRKPVLTGTHPVNTTVDPGGTT 264
Db      181 TISLKNLRPEDSGKTYTCRVSNRAGAINATYKVDVIQRTSRKPVLTGTHPVNTTVDPGGTT 240
QY      265 SFQCKVRSDVKKVIOMLKRVYEGAGGRHNSITIDVGQKFVVLPTGDVWSRPDGSYLKRL 324
Db      241 SFQCKVRSDVKKVIOMLKRVYEGAGGRHNSITIDVGQKFVVLPTGDVWSRPDGSYLKRL 300

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RESULT 11
ID      07T2H2      PRELIMINARY;      PRT;      487 AA.
AC      07T2H2;
DT      01-OCT-2003 (TREMBLrel. 25, Created)
DT      01-OCT-2003 (TREMBLrel. 25, Last sequence update)
DE      01-MAR-2004 (TREMBLrel. 26, Last annotation update)
DE      Fibroblast growth factor receptor-like protein precursor.
GN      Name=FGFR1;
OS      Gallus gallus (Chicken).
OC      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC      Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OX      NCBI_TaxID=9031;
RN      [1]
RP      SEQUENCE FROM N.A.
RC      TISSUE=Cartilage;
RX      PubMed=12813049;
RA      Trub B., Zhuang L., Taeschler S., Wiedemann M.;
RT      Characterization of FGFR1, a Novel FGF receptor preferentially
RT      expressed in skeletal tissues.";
RL      J. Biol. Chem. 278:33857-33865(2003).
DR      EMBL; AJ535114; CAD59380.1; -.
DR      GO; GO:0004872; F:receptor activity; IEA.
DR      InterPro; IPR007110; Ig_Like.
DR      InterPro; IPR003598; Ig_C2.
DR      Pfam; PF00047; Ig_3.
DR      SMART; SM00408; IGC2; 3.
DR      PROSITE; PS00835; IG_Like; 3.
KW      Receptor; Signal.
FT      SIGNAL      1
FT      CHAIN      19 487      Potential.
FT      FT      18      fibroblast growth factor receptor-like
FT      FT      protein.
SQ      SEQUENCE      487 AA; 54099 MW; FFD0132AD917BF94 CRC64;

Query Match      76.1%; Score 1306; DB 2; Length 487;
Best Local Similarity 75.8%; Pred. No. 9.9e-93;
Matches 238; Conservative 36; Mismatches 40; Indels 0; Gaps 0;

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QY      9 LILPRLILGAPPAARPPKMAADKVPQVAVRLGRIVRLQCPVEGDPPLITMTWKXGR 68
Db      3 LQIALLLIGIVALSDSARGPPIADKVIHROSVRLLGRITKLCVPEGDPPLITMMKQGR 62
QY      69 TTHSGMSFRVLPGQLKVKQYVEDAGYVYCKATNGFSGLSVNTYLVLDLISPKESLIG 128
Db      63 TTHSGMTFRILQGLKKEVESDAGYICKATNGFSGTAVNTYLVLDLISGSKNSQT 122
QY      129 PDSSSGQGEDPASQOMAPRFTQPSKMRRIYARPVGSSVRLKCVASGHPRPDITMMKDD 188
Db      123 PEGSNGEYEDSGKQMAPRFTQPSKMRRIYARPVGSSVRLKCVASGHPRPDITMMKDDN 182
QY      189 QALTRPEAAERKKMTLSLNLRPEDSGKTYTCRVSNRAGAINATYKVDVIQRTSRKVL 248
Db      183 KPLMHEIGENKKKKMTLSLNLRPEDSGKTYTCRVSNRAGAINATYKVDVIQRTSRKVL 242
QY      249 TGTHTVNTTVDPGGTTSFQCKVRSDVKKVIOMLKRVYEGAGGRHNSITIDVGQKFVVLPT 308

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DB 243 TGFHFNVTVDYGGTTSFOCKVRSVVKVPIQWLKRVYEGTESKYNSTIDVGQKFFVLP 302  
 QY 309 GDVWSRPDGSYLNK 322  
 DB 303 GEVWSRPDGSYLNK 316

RESULT 12  
 Q7SX76 PRELIMINARY; PRT; 483 AA.  
 ID Q7SX76  
 AC Q7SX76  
 DT 01-OCT-2003 (TrEMBLrel. 25, Created)  
 DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)  
 DT 01-OCT-2004 (TrEMBLrel. 28, Last annotation update)  
 DE FGF receptor-like protein precursor (Fibroblast growth factor receptor-like 1).  
 GN Name=fgfr11;  
 OS Brachydanio rerio (Zebrafish) (Danio rerio).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes; Cyprinidae; Danio.  
 NC NCBL\_TaxID=7955.  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Trueb B., Zhuang L., Taeschler S., Wiedemann M.;  
 RT "Characterization of FGFR1, a novel FGF receptor preferentially expressed in skeletal tissues."  
 RL J. Biol. Chem. 278:0-0(2003).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RC TISSUE=Kidney;  
 RX MEDLINE=22388257; PubMed=12477932;  
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G., Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Bhat N.K., Altschul S.F., Zeeberg B., Blencow K.H., Scheafer C.F., Shieh N.K., Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Haehn F., Diatchenko L., Marusik K., Farmer A.A., Rubin G.M., Hong L., Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E., Brownstein M.J., Udell T.B., Toshiyuki S., Carninci P., Mulvaney S., Bha S.S., Loggani N.A., Peters G.J., Abramson R.D., Gunaratne P.H., Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H., Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hultik S.W., Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A., Fehy J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A., Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., Blakeley R.W., Touchman J.W., Green E.D., Dickson M.C., Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S., Kozminski M.I., Skalska U., Smalins D.E., Scherch A., Schein J.E., Jones S.J., Marra M.A.;  
 RT "Generation and initial analysis of more than 15,000 full-length human RT and mouse cDNA sequences."  
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).  
 RN [3]  
 RP SEQUENCE FROM N.A.  
 RC TISSUE=Kidney;  
 RA Strausberg R.;  
 RL Submitted (JUN-2003) to the EMBL/GenBank/DBJ databases.  
 DR EMBL: AJ574916; CA000573.1; -  
 DR EMBL: BC053245; AAHS3245.1; -  
 DR ZFIN: ZDB-GENE-040128-2; fgfr11.  
 DR GO: GO:0004872; F:receptor activity; IEA.  
 DR InterPro: IPR007110; IG\_1like.  
 DR InterPro: IPR003598; IG\_c2.  
 DR Pfam: PF00047; IG\_3.  
 DR SMART: SM00408; IGC2; 3.  
 DR PROSITE: PS50835; IG\_LIKE; 3.  
 KM Receptor; Signal.  
 FT SIGNAL 1 19 Potential.  
 FT CHAIN 20 483 FGF receptor-like protein.  
 SQ SEQUENCE 483 AA; 53937 MM; 3CBB34E5D57C332C CRC64;

Query Match 69.5%; Score 1193.5; DB 2; Length 483;

Best Local Similarity 73.0%; Pred. No. 5, le-84;  
 Matches 219; Conservative 33; Mismatches 47; Indels 1; Gaps 1;

QY 25 ARGPMDKVPVQVARIQRTVRLQCPVEGDPPLTMTKQGRITHSMSRFLVPL 84  
 DB 20 ARGPMDKVPVQVARIQRTVRLQCPVEGDPPLTMTKQGRITHSMSRFLVPL 79  
 QY 85 KVKQVERPDAGYVVCATNGRSGSLVNTVLYLIDISPKESLGPDSGGEDEPASM 144  
 DB 80 RIKEVEADAGTFCATNGFSGVNTVLYLIDISSAGREGARPGTEYSTD-LTG 138  
 QY 145 ARPFPTQPSKMRBRVIAVAPVSSVRLKCVASGHPDPDITMMDQALTRPEAAEPK 204  
 DB 139 VAPRFPTQPSKMRBRVIAVAPVSSVRLKCVASGHPDPDITMMDQALTRPEAAEPK 198  
 QY 205 TSLKVLREPDAGYVVCATNGRSGSLVNTVLYLIDISPKESLGPDSGGEDEPASM 264  
 DB 199 TSLKVLREPDAGYVVCATNGRSGSLVNTVLYLIDISPKESLGPDSGGEDEPASM 258  
 QY 265 SFQCKVRSVVKVPIQWLKRVYEGTESKYNSTIDVGQKFFVLP 324  
 DB 259 SFQCKVRSVVKVPIQWLKRVYEGTESKYNSTIDVGQKFFVLP 318

RESULT 13  
 Q920C3 PRELIMINARY; PRT; 438 AA.  
 ID Q920C3  
 AC Q920C3  
 DT 01-DEC-2001 (TrEMBLrel. 19, Created)  
 DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)  
 DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)  
 DE Fibroblast growth factor receptor 5 gamma precursor.  
 GN Name=fgfr5; Synonyms=FGFR5;  
 OS Mus musculus (Mouse).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 NC NCBL\_TaxID=10090;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=BALB/c;  
 RX MEDLINE=2111632; PubMed=11418238;  
 RA Sleeman M., Fraser J., McDonald M., Yuan S., White D., Grandison P., Kumble K., Watson J.D., Murison J.G.;  
 RT "Identification of a new fibroblast growth factor receptor, FGFR5."  
 RL Gene 271:171-182(2001).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=BALB/c;  
 RA Sleeman M.A., Fraser J.K., Watson J.D., Kumble K.D., Murison J.G.;  
 RL Submitted (NOV-2000) to the EMBL/GenBank/DBJ databases.  
 DR EMBL: AF321301; AAU06296.1; -  
 DR HSP: P11362; IEVT.  
 DR MGD: MGI:2150920; Fgf11.  
 DR GO: GO:0005886; C:plasma membrane; IDA.  
 DR GO: GO:0005515; F:protein binding; IPI.  
 DR GO: GO:0008285; P:negative regulation of cell proliferation; IDA.  
 DR InterPro: IPR007110; IG\_1like.  
 DR InterPro: IPR003598; IG\_c2.  
 DR Pfam: PF00047; IG\_2.  
 DR SMART: SM00408; IGC2; 2.  
 DR PROSITE: PS50835; IG\_LIKE; 2.  
 KM Receptor; Signal.  
 FT SIGNAL 1 20 Potential.  
 FT CHAIN 21 438 fibroblast growth factor receptor 5 gamma.  
 SQ SEQUENCE 438 AA; 46980 MM; 768D7E96126DD8AE CRC64;

Query Match 60.3%; Score 1035.5; DB 2; Length 438;  
 Best Local Similarity 65.1%; Pred. No. 7, le-72;  
 Matches 211; Conservative 4; Mismatches 14; Indels 95; Gaps 2;

QY 1 MTPSPLLLLLPPLLLGAPPPAAAGPPMDKVPVQVARIQRTVRLQCPVEGDPPL 60

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Db      1 MTRSPALLL-----LLLGALPSAEAR-----22
Qy      61 TMMTQGRTHSGMSFRVLPGGLAKYQVEREDAGVYCKATNGFGLSVNTIVLVDI 120
Db      23 -----DDI 25
Qy      121 SPKESLIGPSSSGCEDPASQOMAPRFTOPSKKRRVIARPVGSSVRLKCVASGHRP 180
Db      26 SFGKSPGSGSSCGCEDPASQOMAPRFTOPSKKRRVIARPVGSSVRLKCVASGHRP 85
Qy      181 DTTMKDDQALTRPEAEPRKKKMTLSKQLRPEDSGKTTCRVSNPAGAINATYKVDV 240
Db      86 DTTMKDDQALTRPEAEPRKKKMTLSKQLRPEDSGKTTCRVSNPAGAINATYKVDV 145
Qy      241 RTRSKRVLTGTHPVNTTVPFGGTSFQCKVRSDVKVIOMLKRVEXGAEGRNSTIDVG 300
Db      146 RTRSKRVLTGTHPVNTTVPFGGTSFQCKVRSDVKVIOMLKRVEXGAEGRNSTIDVG 205
Qy      301 QKRVVLPFGDVWSRPDGSYLNRPL 324
Db      206 QKRVVLPFGDVWSRPDGSYLNRPL 229

RESULT 14
Q6PJN1  PRELIMINARY; PRT; 350 AA.
AC      06PJN1;
DT      05-JUL-2004 (TREMBlrel. 27, Created)
DT      05-JUL-2004 (TREMBlrel. 27, Last sequence update)
DE      FGFR1 protein.
OS      Homo sapiens (Human).
OC      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC      Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX      NCBI_TaxId=9606;
RN      [1]
RP      SEQUENCE FROM N.A.
RC      TISSUE=Kidney;
RX      MEDLINE=22388257; PubMed=12477932;
RA      Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA      Klausner R.D., Collins F.S., Wagner L., Shemen C.M., Schuler G.D.,
RA      Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA      Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA      Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA      Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA      Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA      Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J.,
RA      Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA      Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA      Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA      Fahy J., Helton E., Kettelman M., Madan A., Rodrigues S., Sanchez A.,
RA      Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA      Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA      Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA      Krzywinski M.I., Skalska U., Smallus D.E., Scherch A., Schein J.E.,
RA      Jones S.J., Matra M.A.;
RT      "Generation and initial analysis of more than 15,000 full-length human
RT      and mouse cDNA sequences."
RL      Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN      [2]
RP      SEQUENCE FROM N.A.
RC      TISSUE=Kidney;
RA      Strausberg R.;
RL      Submitted (SEP-2001) to the EMBL/GenBank/DBJ databases.
DR      EMBL, BC013955, AAH13955.1; -.
DR      InterPro, IPR003599; IG.
DR      InterPro, IPR007110; IG-like.
DR      Pfam, PF00047; IG_2.
DR      SMART, SM00409; IG_2.
DR      SMART, SM00408; IGC2; 2.
DR      PROSITE, PS50835; IG_LIKE; 2.
SQ      SEQUENCE 350 AA; 37962 MW; C92A18DB4374A831 CRC64;

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Query Match      52.1%; Score 894; DB 2; Length 350;
Beet Local Similarity 99.4%; Pred. No. 5.3e-61;
Matches 169; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      155 MRRVIARPVGSSVRLKCVASGHRPDIITMKDDQALTRPEAEPRKKKMTLSKQLRPE 214
Db      1 MRRVIARPVGSSVRLKCVASGHRPDIITMKDDQALTRPEAEPRKKKMTLSKQLRPE 60
Qy      215 DSGKTYCRVSNPAGAINATYKVDVQRTSRKRVLTGTHPVNTTVPFGGTSFQCKVRSDV 274
Db      61 DSGKTYCRVSNPAGAINATYKVDVQRTSRKRVLTGTHPVNTTVPFGGTSFQCKVRSDV 120
Qy      275 KPVIOMLKRVEXGAEGRNSTIDVGQKRVVLPFGDVWSRPDGSYLNRPL 324
Db      121 KPVIOMLKRVEXGAEGRNSTIDVGQKRVVLPFGDVWSRPDGSYLNRPL 170

RESULT 15
AAH13955
AAH13955; PRELIMINARY; PRT; 350 AA.
AC      AAH13955;
DT      02-MAR-2004 (TREMBlrel. 27, Created)
DT      02-MAR-2004 (TREMBlrel. 27, Last sequence update)
DE      FGFR1 protein.
OS      Homo sapiens (Human).
OC      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC      Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX      NCBI_TaxId=9606;
RN      [1]
RP      SEQUENCE FROM N.A.
RC      TISSUE=Kidney;
RX      MEDLINE=22388257; PubMed=12477932;
RA      Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA      Klausner R.D., Collins F.S., Wagner L., Shemen C.M., Schuler G.D.,
RA      Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA      Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA      Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA      Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA      Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA      Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J.,
RA      Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA      Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA      Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA      Fahy J., Helton E., Kettelman M., Madan A., Rodrigues S., Sanchez A.,
RA      Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA      Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA      Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA      Krzywinski M.I., Skalska U., Smallus D.E., Scherch A., Schein J.E.,
RA      Jones S.J., Matra M.A.;
RT      "Generation and initial analysis of more than 15,000 full-length human
RT      and mouse cDNA sequences."
RL      Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN      [2]
RP      SEQUENCE FROM N.A.
RC      TISSUE=Kidney;
RA      Strausberg R.;
RL      Submitted (SEP-2001) to the EMBL/GenBank/DBJ databases.
DR      EMBL, BC013955, AAH13955.1; -.
DR      InterPro, IPR003599; IG.
DR      InterPro, IPR007110; IG-like.
DR      Pfam, PF00047; IG_2.
DR      SMART, SM00409; IG_2.
DR      SMART, SM00408; IGC2; 2.
DR      PROSITE, PS50835; IG_LIKE; 2.
SQ      SEQUENCE 350 AA; 37962 MW; C92A18DB4374A831 CRC64;

Query Match      52.1%; Score 894; DB 2; Length 350;
Beet Local Similarity 99.4%; Pred. No. 5.3e-61;
Matches 169; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      155 MRRVIARPVGSSVRLKCVASGHRPDIITMKDDQALTRPEAEPRKKKMTLSKQLRPE 214
Db      1 MRRVIARPVGSSVRLKCVASGHRPDIITMKDDQALTRPEAEPRKKKMTLSKQLRPE 60
Qy      215 DSGKTYCRVSNPAGAINATYKVDVQRTSRKRVLTGTHPVNTTVPFGGTSFQCKVRSDV 274
Db      61 DSGKTYCRVSNPAGAINATYKVDVQRTSRKRVLTGTHPVNTTVPFGGTSFQCKVRSDV 120
Qy      275 KPVIOMLKRVEXGAEGRNSTIDVGQKRVVLPFGDVWSRPDGSYLNRPL 324
Db      121 KPVIOMLKRVEXGAEGRNSTIDVGQKRVVLPFGDVWSRPDGSYLNRPL 170

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Oy 275 KPVIOMLKRVEXGAEGRHNSITIDVGQKFVLPJGDPWMSRPGSYINKPL 324  
Db 121 KPVIOMLKRVEXGAEGRHNSITIDVGQKFVLPJGDPWMSRPGSYINKPL 170

Search completed: February 2, 2005, 18:26:02  
Job time : 197 secs

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